

ESAT Controlled Number: ESAT 5.217.00429- PJ 17 FEB 2011

NS
2/16/11

DATE: February 16, 2011

Seagull Environmental Technologies, Inc.
ATTN: **Mr. Ryan Lunt**
11905 Gillette Street
Overland Park, KS 66213



SITE NAME: Chemetco (IL) - **level 3 data validation**

<u>Case</u>	<u>Lab</u>	<u>Samples</u>	<u>SDG</u>	<u>Matrix</u>
40949	TA Burlington	12	ME52Z1	water

Analysis: metals & cyanide

Upon receipt of data, please check each package for completeness and note any missing deliverables below.

PLEASE!!!! Send this form back to Sylvia Griffin, Data Management Coordinator after filling in the blanks below.

Data Received by: Ryan M. Lunt Date: 03/11/2011

PROBLEMS:

Please indicate if data is complete, and note if there are any deliverables missing from the cases noted above.

Data is complete,

Received by Data Management Coordinator, CRL for file.

Signature: Ryan M. Lunt Date: 03/11/2011

FROM: **U.S. EPA - Region 5**
Sylvia Griffin
Chicago Regional Laboratory
536 S. Clark, 10th Floor
Chicago, IL 60605

Sent By: Pat Joyner
Data Coordinator
ESAT Region 5 **TechLaw**

ESAT5.215.00152

ack
2-16-11

Regional Transmittal Form

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION V

DATE: 2/11/11

SUBJECT: Review of Data
Received for review on 1/31/11

FROM: Timothy Prendiville, Supervisor, Chief (SRT-6J)
Superfund Contract Management Section

TO: Data User: Seagull
Email address: rlunt@seagullenvirotech.com

LEVEL 3 DATA VALIDATION

We have reviewed the data for the following case:

SITE NAME: Chemetco (IL)

CASE NUMBER: 40949 SDG NUMBER: ME52Z1

Number and Type of Samples: 12 waters

Sample Numbers: ME52Z1-Z2, Z8, 5300, 02-05, 14-16, 20

Laboratory: TestAmerica Burlington Hrs. for Review: 20.0

Following are our findings:

+2.0
DEC
2-16-11

CC: Howard Pham
Region 5 TPO
Mail Code: SA-5J

Below is a summary of the out-of-control audits and the possible effects on the data for this case:

Twelve (12) water samples, numbered ME52Z1-Z2, Z8, 5300, 02-05, 14-16, 20, were collected on January 11-12, 2010. The lab received the samples on January 14, 2010. Although the coolers containing the samples were outside the required temperature range, no sample results are qualified for this deficiency. All samples were analyzed for metals and cyanide. All samples were analyzed using the CLP SOW ISM01.2 analysis procedures.

Mercury analysis was performed using a Cold Vapor AA Technique. Cyanide analysis was performed using the MIDI Distillation procedure. The remaining inorganic analyses were performed using an Inductively Coupled Plasma-Mass Spectroscopy (ICP-MS) procedure.

Form 15 (ICP-MS Internal Standards Relative Intensity Summary) was not provided for the January 26, 2010 analytical run. Values were verified from the raw data; the only results reported from that run were the preparation blank and LCS results for zinc.

Several sample results were reported from 10X dilutions where there was no indication of an error for with the undiluted values. The reported value was changed to the undiluted value by this reviewer. EXES does not allow the reviewer to change the dilution for a sample, so EXES does not have the proper dilution factor reported.

EXES flagged samples J-/R for improper preservation except for cyanide. In the EXES Superset Deliverable file, the pH entered was 12 for all analytes. The pH for metals should be entered in as 2. There is nothing in place for this reviewer to make the proper changes to the Superset Deliverable file. The flags for improper preservation have been removed from this reviewers report.

1. HOLDING TIME:

The following inorganic samples did not meet pH criteria upon receipt.
Hits are qualified "J-" and all non-detects are qualified "R".

Cyanide
ME52Z2

2. CALIBRATIONS:

The following inorganic samples are associated with a non-zero calibration standard which did not meet percent difference criteria (+/-30% of true value).
Hits are qualified "J" and non-detects are qualified "UJ".

Vanadium
ME5302

3. BLANKS:

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL). The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.
Hits greater than the CRQL but less than 5 times the blank are qualified "J+".

Antimony
ME52Z1, ME52Z2, ME52Z8, ME5300, ME5302, ME5305, ME5314, ME5315,
ME5316, ME5320

Barium
ME5302

Mercury
ME5305, ME5314, ME5316

Thallium
ME52Z1, ME52Z2, ME52Z8, ME5300, ME5302, ME5304, ME5305, ME5314,
ME5315, ME5316

Vanadium
ME5302

The following inorganic samples are associated with an ICB/CCB or preparation blank concentration which is greater than the method detection limit (MDL) and with a negative ICB/CCB or preparation blank whose absolute value is greater than the MDL. The sample result is greater than the MDL.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.

Hits greater than the CRQL but less than 5 times the blank are qualified "J".

Mercury

ME5300, ME5302, ME5303

The following inorganic samples are associated with a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). The sample result is also greater than the MDL.

Hits less than 5 times the blank are qualified "J-".

Arsenic

ME52Z8, ME5304

Beryllium

ME52Z1, ME5303, ME5304

Cadmium

ME52Z1, ME52Z2, ME5305

Chromium

ME5316

Cobalt

ME5303, ME5305

Lead

ME5315

Mercury

ME52Z1, ME52Z2

Nickel

ME5316

Selenium

ME5320

Silver

ME5320

The following inorganic samples are associated with a field/equipment/reagent blank concentration which is greater than the MDL but less than the CRQL. ME5315 and ME5316 are identified as field/equipment/reagent blanks.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.

Hits greater than the CRQL but less than 5 times the blank are qualified "J+". Hits greater than 5 times the blank are not qualified.

Nickel

ME52Z8, ME5300, ME5305

The following inorganic samples are associated with a field/equipment/reagent blank concentration which is greater than the MDL but less than the CRQL and a negative ICB/CCB or preparation blank concentration whose absolute value is greater than the method detection limit (MDL). ME5315 and ME5316 are identified as field/equipment/reagent blanks.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.
Hits greater than the CRQL but less than 5 times the blank are qualified "J". Hits greater than 5 times the blank are not qualified.

Chromium

ME5300, ME5302, ME5303, ME5304

Lead

ME52Z8, ME5300, ME5302

Nickel

ME5302

The following inorganic samples are associated with a field/equipment/reagent blank concentration which is greater than the CRQL. ME5315 and ME5316 are identified as field/equipment/reagent blanks.

Hits less than the CRQL are qualified "U". The sample result is raised to the CRQL.
Hits greater than the CRQL but less than 5 times the blank are qualified "J+". Hits greater than 5 times the blank are not qualified.

Manganese

ME52Z1, ME52Z8, ME5300, ME5304, ME5305

Zinc

ME52Z1, ME52Z2, ME52Z8, ME5300, ME5302, ME5303, ME5304, ME5305, ME5314, ME5320

4. MATRIX SPIKE/MATRIX SPIKE DUPLICATE AND LAB CONTROL SAMPLE:

No defects were found for matrix spike or laboratory control samples.

5. LABORATORY AND FIELD DUPLICATE:

No defects were found for the laboratory duplicate samples.

ME52Z2 and ME5314 are field duplicates. The following inorganic analytes are associated with field duplicate results which did not meet technical data validation criteria; however, no sample results are qualified for field duplicates.

ME52Z2/ME5314
Arsenic, Cobalt, Copper, Lead, Selenium, Zinc

6. ICP ANALYSIS:

The following inorganic samples were reported from 10 fold dilutions where there were no technical problems with the undiluted values. No qualification is needed.

The following sample results are reported from the undiluted analysis. EXES lists the dilutions incorrectly.

ME52Z1
Cobalt, Lead

ME52Z2
Barium, Lead, Selenium

ME52Z8
Barium

ME5300
Barium

ME5303
Antimony

ME5314
Barium, Selenium

The following inorganic samples have internal standard percent relative intensity outside the technical data validation criteria. The sample was not reanalyzed at the required 2 fold dilution.

Hits for results bracketed by the internal standard are qualified "J" and non-detects are qualified "R".

Arsenic
ME5320

Cadmium
ME52Z1

The following inorganic samples are associated with reported ICP raw results which are greater than the calibration range of the instrument.

Hits are qualified "J".

Arsenic
ME52Z2

No defects were found for the tune, ICS samples or serial dilution sample.

7. SAMPLE RESULTS:

The following inorganic samples have analyte concentrations reported above the method detection limit (MDL) but below the quantitation limit (CRQL).

Results are qualified "J".

Beryllium

ME52Z1, ME5303, ME5304

Cadmium

ME52Z1, ME52Z2, ME5305

Chromium

ME5316

Cobalt

ME52Z8, ME5303, ME5304, ME5305

Copper

ME5302

Lead

ME5315, ME5316

Nickel

ME5316

Selenium

ME5320

Silver

ME5320

Vanadium

ME52Z2, ME5304, ME5314

Cyanide

ME5320

All data, except those qualified above, are acceptable.

EXES ISM01.2 Data Qualifier Sheet

<u>Qualifiers</u>	<u>Data Qualifier Definitions</u>
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.
UJ	The analyte was analyzed for, but not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Sample Summary Report

Case No:	40949	Contract	EPW09044	SDG No:	ME52Z1	Lab Code	STLV
Sample Number:	LCS	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony			1.0			Yes	
Arsenic			1.0			Yes	
Barium			1.0			Yes	
Beryllium			1.0			Yes	
Cadmium			1.0			Yes	
Chromium			1.0			Yes	
Cobalt			1.0			Yes	
Copper			1.0			Yes	
Lead			1.0			Yes	
Manganese			1.0			Yes	
Nickel			1.0			Yes	
Selenium			1.0			Yes	
Silver			1.0			Yes	
Thallium			1.0			Yes	
Vanadium			1.0			Yes	
Zinc			1.0			Yes	

Case No:	40949	Contract:	EPW09044	SDG No.	ME52Z1	Lab Code:	STLV
Sample Number	ME52Z1	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-1	pH:	12.0	Sample Date:	01122011	Sample Time:	09:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.21	ug/L	1.0		J-	Yes	S2BVE

No	40949	Contract	EPW09044	SDG No	ME52Z1	Lab Code	STLV
Sample Number	ME52Z1	Method	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location.	GW-1	pH.	12.0	Sample Date:	01122011	Sample Time.	09.15.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME52Z1	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-1	pH:	12.0	Sample Date:	01122011	Sample Time:	09.15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	24.9	ug/L	5.0	D		Yes	S2BVE
Barium	856	ug/L	10.0	D		Yes	S2BVE
Beryllium	0.59	ug/L	1.0	J	J-	Yes	S2BVE
Cadmium	0.18	ug/L	1.0	J	J-	Yes	S2BVE
Chromium	34.3	ug/L	1.0			Yes	S2BVE
Cobalt	13.6	ug/L	10.0	D		Yes	S2BVE
Copper	30.1	ug/L	1.0			Yes	S2BVE
Lead	27.6	ug/L	10.0	D		Yes	S2BVE
Manganese	1450	ug/L	100.0	D	J+	Yes	S2BVE
Nickel	44.9	ug/L	1.0			Yes	S2BVE
Selenium	34.4	ug/L	1.0			Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	34.2	ug/L	1.0			Yes	S2BVE
Zinc	258	ug/L	5.0	D	J+	Yes	S2BVE

No	40949	Contract:	EPW09044	SDG No.	ME52Z1	Lab Code	STLV
Sample Number.	ME52Z2	Method.	Hg	Matrix	Water	MA Number:	DEFAULT
Sample Location	GW-2	pH.	12.0	Sample Date:	01122011	Sample Time	11 15.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.23	ug/L	1.0		J-	Yes	S2BVE

Case No	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME52Z2	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-2	pH:	12.0	Sample Date:	01122011	Sample Time:	11:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	95.8	ug/L	1.0		J	Yes	S2BVE
Barium	319	ug/L	10.0	D		Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	0.65	ug/L	1.0	J	J-	Yes	S2BVE
Chromium	2.6	ug/L	1.0			Yes	S2BVE
Cobalt	2.9	ug/L	1.0			Yes	S2BVE
Copper	40.2	ug/L	1.0			Yes	S2BVE
Lead	25.5	ug/L	10.0	D		Yes	S2BVE
Manganese	4700	ug/L	100.0	D		Yes	S2BVE
Nickel	12.3	ug/L	1.0			Yes	S2BVE
Selenium	225	ug/L	10.0	D		Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	4.8	ug/L	1.0	J	J	Yes	S2BVE
Zinc	40.9	ug/L	1.0		J+	Yes	S2BVE

No	40949	Contract	EPW09044	SDG No	ME52Z1	Lab Code.	STLV
Sample Number	ME52Z2	Method:	CN	Matrix	Water	MA Number.	DEFAULT
Sample Location	GW-2	pH:	12.0	Sample Date:	01/12/2011	Sample Time.	11:15:00
% Moisture :				% Solids .			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME52Z8	Method:	CN	Matrix	Water	MA Number:	DEFAULT
Sample Location:	RW-1	pH:	12.0	Sample Date:	01112011	Sample Time:	15:57.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

No	40949	Contract	EPW09044	SDG No	ME52Z1	Lab Code	STLV
Sample Number	ME52Z8	Method	Hg	Matrix	Water	MA Number:	DEFAULT
Sample Location	RW-1	pH.	12.0	Sample Date:	01112011	Sample Time:	15 57 00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	U	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME52Z8	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location	RW-1	pH	12.0	Sample Date:	01112011	Sample Time:	15:57.00
% Moisture				% Solids:			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	2.0	ug/L	1.0		J-	Yes	S2BVE
Barium	184	ug/L	10.0	D		Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Chromium	2.0	ug/L	1.0	U	U	Yes	S2BVE
Cobalt	0.99	ug/L	1.0	J	J	Yes	S2BVE
Copper	2.0	ug/L	1.0	U	U	Yes	S2BVE
Lead	1.0	ug/L	1.0	J	U	Yes	S2BVE
Manganese	495	ug/L	100.0	D	J+	Yes	S2BVE
Nickel	2.5	ug/L	1.0		J+	Yes	S2BVE
Selenium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Zinc	4.0	ug/L	1.0		J+	Yes	S2BVE

Job No:	40949	Contract:	EPW09044	SDG No:	ME5221	Lab Code	STLV
Sample Number:	ME5300	Method:	CN	Matrix	Water	MA Number:	DEFAULT
Sample Location	RW-3	pH:	12.0	Sample Date:	01/11/2011	Sample Time:	17:35:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

Case No:	40949	Contract	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5300	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	RW-3	pH:	12.0	Sample Date:	01112011	Sample Time:	17:35:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	4.9	ug/L	1.0			Yes	S2BVE
Barium	86.7	ug/L	10.0	J D		Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Chromium	2.0	ug/L	1.0	J	U	Yes	S2BVE
Cobalt	1.0	ug/L	1.0	U	U	Yes	S2BVE
Copper	46.2	ug/L	1.0			Yes	S2BVE
Lead	1.0	ug/L	1.0	J	U	Yes	S2BVE
Manganese	9.6	ug/L	1.0		J+	Yes	S2BVE
Nickel	1.0	ug/L	1.0	J	U	Yes	S2BVE
Selenium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Zinc	74.9	ug/L	1.0		J+	Yes	S2BVE

No	40949	Contract.	EPW09044	SDG No:	ME52Z1	Lab Code	STLV
Sample Number.	ME5300	Method	Hg	Matrix	Water	MA Number:	DEFAULT
Sample Location	RW-3	pH:	12.0	Sample Date:	01112011	Sample Time:	17.35.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code	STLV
Sample Number:	ME5302	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-2	pH:	12.0	Sample Date:	01122011	Sample Time:	11:07:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	5.2	ug/L	1.0			Yes	S2BVE
Barium	11.8	ug/L	1.0			Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Chromium	2.0	ug/L	1.0	J	U	Yes	S2BVE
Cobalt	1.0	ug/L	1.0	U	U	Yes	S2BVE
Copper	1.4	ug/L	1.0	J	J	Yes	S2BVE
Lead	1.0	ug/L	1.0	J	U	Yes	S2BVE
Manganese	1.0	ug/L	1.0	U	U	Yes	S2BVE
Nickel	1.0	ug/L	1.0	J	U	Yes	S2BVE
Selenium	17.8	ug/L	1.0			Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	5.0	ug/L	1.0	J	U	Yes	S2BVE
Zinc	3.1	ug/L	1.0		J+	Yes	S2BVE

Job No	40949	Contract:	EPW09044	SDG No	ME52Z1	Lab Code	STLV
Sample Number:	ME5302	Method	CN	Matrix	Water	MA Number.	DEFAULT
Sample Location:	CW-2	pH:	12.0	Sample Date	01122011	Sample Time	11 07 00
% Moisture :				% Solids .			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No.	ME52Z1	Lab Code:	STLV
Sample Number:	ME5302	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-2	pH:	12.0	Sample Date:	01122011	Sample Time:	11:07:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVE

Job No.	40949	Contract:	EPW09044	SDG No.	ME52Z1	Lab Code	STLV
Sample Number	ME5302D	Method.	CN	Matrix.	Water	MA Number	DEFAULT
Sample Location:		pH	12.0	Sample Date.	01/12/2011	Sample Time	11:07:00
% Moisture :				% Solids			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

Case No.	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code	STLV
Sample Number:	ME5302D	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH.	12.0	Sample Date:	01122011	Sample Time:	11:07.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	4.9	ug/L	1.0		J-	Yes	S2BVE
Barium	15.0	ug/L	1.0		J-	Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	R	Yes	S2BVE
Cadmium	0.12	ug/L	1.0	J	J-	Yes	S2BVE
Chromium	2.0	ug/L	1.0	J	U	Yes	S2BVE
Cobalt	1.0	ug/L	1.0	U	R	Yes	S2BVE
Copper	2.6	ug/L	1.0		J-	Yes	S2BVE
Lead	0.32	ug/L	1.0	J	J-	Yes	S2BVE
Manganese	1.0	ug/L	1.0	U	R	Yes	S2BVE
Nickel	0.69	ug/L	1.0	J	J-	Yes	S2BVE
Selenium	17.1	ug/L	1.0		J-	Yes	S2BVE
Silver	1.0	ug/L	1.0	U	R	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	5.0	ug/L	1.0	J	U	Yes	S2BVE
Zinc	4.8	ug/L	1.0		J-	Yes	S2BVE

No	40949	Contract	EPW09044	SDG No	ME52Z1	Lab Code	STLV
Sample Number.	ME5302D	Method	Hg	Matrix	Water	MA Number.	DEFAULT
Sample Location		pH:	12.0	Sample Date:	01122011	Sample Time	11 07 00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5302L	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:	01122011	Sample Time:	11.07.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.1	ug/L	5.0	J	J	Yes	
Arsenic	5.3	ug/L	5.0			Yes	
Barium	21.7	ug/L	5.0	J	J	Yes	
Beryllium	5.0	ug/L	5.0	U	U	Yes	
Cadmium	5.0	ug/L	5.0	U	U	Yes	
Chromium	3.1	ug/L	5.0	J	J	Yes	
Cobalt	5.0	ug/L	5.0	U	U	Yes	
Copper	6.8	ug/L	5.0	J	J	Yes	
Lead	0.88	ug/L	5.0	J	J	Yes	
Manganese	5.0	ug/L	5.0	U	U	Yes	
Nickel	3.5	ug/L	5.0	J	J	Yes	
Selenium	14.5	ug/L	5.0	J	J	Yes	
Silver	5.0	ug/L	5.0	U	U	Yes	
Thallium	0.44	ug/L	5.0	J	J	Yes	
Vanadium	9.6	ug/L	5.0	J	J	Yes	
Zinc	10.0	ug/L	5.0	U	U	Yes	

No.	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code	STLV
Sample Number	ME5302S	Method	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location.		pH:	12.0	Sample Date:	01122011	Sample Time.	11 07.00
% Moisture :				% Solids .			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	108	ug/L	1.0		J-	Yes	S2BVE
Arsenic	42.0	ug/L	10.0		J-	Yes	S2BVE
Barium	2030	ug/L	10.0		J-	Yes	S2BVE
Beryllium	53.5	ug/L	1.0		J-	Yes	S2BVE
Cadmium	47.6	ug/L	1.0		J-	Yes	S2BVE
Chromium	211	ug/L	10.0		J-	Yes	S2BVE
Cobalt	508	ug/L	10.0		J-	Yes	S2BVE
Copper	258	ug/L	10.0		J-	Yes	S2BVE
Lead	22.9	ug/L	1.0		J-	Yes	S2BVE
Manganese	527	ug/L	10.0		J-	Yes	S2BVE
Nickel	499	ug/L	10.0		J-	Yes	S2BVE
Selenium	27.6	ug/L	1.0		J-	Yes	S2BVE
Silver	42.6	ug/L	1.0		J-	Yes	S2BVE
Thallium	54.1	ug/L	1.0		J-	Yes	S2BVE
Vanadium	528	ug/L	10.0		J-	Yes	S2BVE
Zinc	571	ug/L	10.0		J-	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No.	ME52Z1	Lab Code:	STLV
Sample Number.	ME5302S	Method	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH.	12.0	Sample Date:	01122011	Sample Time:	11:07.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	89.2	ug/L	1.0			Yes	S2BVE

No.	40949	Contract	EPW09044	SDG No	ME52Z1	Lab Code.	STLV
Sample Number	ME5302S	Method.	Hg	Matrix	Water	MA Number:	DEFAULT
Sample Location:		pH	12.0	Sample Date	01122011	Sample Time:	11.07.00
% Moisture				% Solids			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	1.2	ug/L	1.0		J-	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5303	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-3	pH:	12.0	Sample Date:	01122011	Sample Time:	09:50.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	17.6	ug/L	10.0	D		Yes	S2BVE
Arsenic	23.4	ug/L	5.0	D		Yes	S2BVE
Barium	98.9	ug/L	1.0			Yes	S2BVE
Beryllium	0.26	ug/L	1.0	J	J-	Yes	S2BVE
Cadmium	3.5	ug/L	1.0			Yes	S2BVE
Chromium	2.0	ug/L	1.0	J	U	Yes	S2BVE
Cobalt	0.53	ug/L	1.0	J	J-	Yes	S2BVE
Copper	62.5	ug/L	1.0			Yes	S2BVE
Lead	96.4	ug/L	10.0	D		Yes	S2BVE
Manganese	33.6	ug/L	1.0			Yes	S2BVE
Nickel	21.1	ug/L	1.0			Yes	S2BVE
Selenium	35.4	ug/L	1.0			Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.6	ug/L	1.0			Yes	S2BVE
Vanadium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Zinc	225	ug/L	5.0	D	J+	Yes	S2BVE

No.	40949	Contract	EPW09044	SDG No:	ME52Z1	Lab Code	STLV
Sample Number.	ME5303	Method.	Hg	Matrix.	Water	MA Number:	DEFAULT
Sample Location.	CW-3	pH:	12.0	Sample Date.	01122011	Sample Time	09.50.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVE

Case No	40949	Contract	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5303	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-3	pH:	12.0	Sample Date:	01122011	Sample Time:	09.50.00
% Moisture :				% Solids			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

No	40949	Contract	EPW09044	SDG No	ME52Z1	Lab Code	STLV
Sample Number.	ME5304	Method	Hg	Matrix.	Water	MA Number.	DEFAULT
Sample Location.	CW-4	pH.	12.0	Sample Date	01122011	Sample Time	10 11.00
% Moisture :				% Solids .			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	U	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5304	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-4	pH:	12.0	Sample Date:	01122011	Sample Time:	10:11:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

No:	40949	Contract	EPW09044	SDG No	ME5221	Lab Code	STLV
Sample Number.	ME5304	Method	ICP_MS	Matrix	Water	MA Number	DEFAULT
Sample Location.	CW-4	pH.	12.0	Sample Date:	01122011	Sample Time:	10 11 00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	10.3	ug/L	1.0			Yes	S2BVE
Arsenic	14.7	ug/L	10.0	D	J-	Yes	S2BVE
Barium	99.6	ug/L	1.0			Yes	S2BVE
Beryllium	0.24	ug/L	1.0	J	J-	Yes	S2BVE
Cadmium	5.4	ug/L	1.0			Yes	S2BVE
Chromium	2.0	ug/L	1.0	J	U	Yes	S2BVE
Cobalt	0.82	ug/L	1.0	J	J	Yes	S2BVE
Copper	57.2	ug/L	1.0			Yes	S2BVE
Lead	105	ug/L	10.0	D		Yes	S2BVE
Manganese	184	ug/L	100.0	D	J+	Yes	S2BVE
Nickel	34.8	ug/L	1.0			Yes	S2BVE
Selenium	16.4	ug/L	1.0			Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	2.6	ug/L	1.0	J	J	Yes	S2BVE
Zinc	386	ug/L	10.0	D	J+	Yes	S2BVE

Case No.	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code.	STLV
Sample Number:	ME5305	Method	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-5	pH:	12.0	Sample Date:	01122011	Sample Time:	10:35:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

No.	40949	Contract.	EPW09044	SDG No.	ME52Z1	Lab Code:	STLV
Sample Number	ME5305	Method.	Hg	Matrix.	Water	MA Number	DEFAULT
Sample Location:	CW-5	pH:	12.0	Sample Date:	01122011	Sample Time	10 35.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVE

Case No.	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5305	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	CW-5	pH:	12.0	Sample Date:	01122011	Sample Time:	10:35 00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	4.3	ug/L	1.0			Yes	S2BVE
Barium	70.0	ug/L	1.0			Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	0.64	ug/L	1.0	J	J-	Yes	S2BVE
Chromium	2.0	ug/L	1.0	U	U	Yes	S2BVE
Cobalt	0.21	ug/L	1.0	J	J-	Yes	S2BVE
Copper	8.2	ug/L	1.0			Yes	S2BVE
Lead	6.0	ug/L	1.0			Yes	S2BVE
Manganese	688	ug/L	100.0	D	J+	Yes	S2BVE
Nickel	4.6	ug/L	1.0		J+	Yes	S2BVE
Selenium	10.2	ug/L	1.0			Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Zinc	31.8	ug/L	1.0		J+	Yes	S2BVE

No	40949	Contract	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number.	ME5314	Method	CN	Matrix:	Water	MA Number	DEFAULT
Sample Location	GW-2-FD	pH.	12.0	Sample Date.	01/12/2011	Sample Time:	11:15:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

Contract: EPW09044

SDG No: ME52Z1

Lab Code: STLV

Sample Number: ME5314

Method: ICP_MS

Matrix: Water

MA Number: DEFAULT

Sample Location: GW-2-FD

pH: 12.0

Sample Date: 01122011

Sample Time: 11.15.00

% Moisture :

% Solids :

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	53.0	ug/L	10.0	D		Yes	S2BVE
Barium	348	ug/L	10.0 3/31/11 WE	D		Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	1.6	ug/L	1.0			Yes	S2BVE
Chromium	3.5	ug/L	1.0			Yes	S2BVE
Cobalt	1.9	ug/L	1.0			Yes	S2BVE
Copper	87.7	ug/L	1.0			Yes	S2BVE
Lead	58.8	ug/L	10.0	D		Yes	S2BVE
Manganese	4640	ug/L	100.0	D		Yes	S2BVE
Nickel	10.5	ug/L	1.0			Yes	S2BVE
Selenium	277	ug/L	10.0 3/31/11 WE	D		Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	2.0	ug/L	1.0	J	J	Yes	S2BVE
Zinc	90.1	ug/L	1.0		J+	Yes	S2BVE

No problems w/ uninitiated
samples - Section 6 needs narrative.

No	40949	Contract.	EPW09044	SDG No:	ME52Z1	Lab Code	STLV
Sample Number.	ME5314	Method	Hg	Matrix	Water	MA Number	DEFAULT
Sample Location.	GW-2-FD	pH.	12.0	Sample Date	01/22/2011	Sample Time	11:15:00
% Moisture				% Solids			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5315	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-FB	pH:	12.0	Sample Date:	01112011	Sample Time:	18:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5315	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-FB	pH:	12.0	Sample Date:	01112011	Sample Time:	18:05:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	U	U	Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5315	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-FB	pH:	12.0	Sample Date:	01112011	Sample Time:	18 05.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	1.0	ug/L	1.0	U	U	Yes	S2BVE
Barium	10.0	ug/L	1.0	U	U	Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Chromium	2.0	ug/L	1.0	U	U	Yes	S2BVE
Cobalt	1.0	ug/L	1.0	U	U	Yes	S2BVE
Copper	2.0	ug/L	1.0	U	U	Yes	S2BVE
Lead	0.095	ug/L	1.0	J	J-	Yes	S2BVE
Manganese	1.1	ug/L	1.0			Yes	S2BVE
Nickel	1.0	ug/L	1.0	U	U	Yes	S2BVE
Selenium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Zinc	2.0	ug/L	1.0	U	U	Yes	S2BVE

No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5316	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-Rinsate	pH:	12.0	Sample Date:	01122011	Sample Time:	16:10.00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	S2BVE
Arsenic	1.0	ug/L	1.0	U	U	Yes	S2BVE
Barium	10.0	ug/L	1.0	U	U	Yes	S2BVE
Beryllium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Cadmium	1.0	ug/L	1.0	U	U	Yes	S2BVE
Chromium	0.19	ug/L	1.0	J	J-	Yes	S2BVE
Cobalt	1.0	ug/L	1.0	U	U	Yes	S2BVE
Copper	2.0	ug/L	1.0	U	U	Yes	S2BVE
Lead	0.64	ug/L	1.0	J	J	Yes	S2BVE
Manganese	5.0	ug/L	1.0			Yes	S2BVE
Nickel	0.95	ug/L	1.0	J	J-	Yes	S2BVE
Selenium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Silver	1.0	ug/L	1.0	U	U	Yes	S2BVE
Thallium	1.0	ug/L	1.0	J	U	Yes	S2BVE
Vanadium	5.0	ug/L	1.0	U	U	Yes	S2BVE
Zinc	34.2	ug/L	1.0			Yes	S2BVE

Case No.	40949	Contract	EPW09044	SDG No.	ME52Z1	Lab Code.	STLV
Sample Number.	ME5316	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-Rinsate	pH:	12.0	Sample Date	01122011	Sample Time:	16:10:00
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.20	ug/L	1.0	J	U	Yes	S2BVE

No: 40949	Contract	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5316	Method:	CN	Matrix:	Water	MA Number: DEFAULT
Sample Location:	GW-Rinsate	pH:	12.0	Sample Date:	01122011	Sample Time: 16:10:00
% Moisture :		% Solids :				

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	S2BVE

EPW09044	SDG No: ME52Z1	Lab Code: STLV
Method: ICP_MS	Matrix: Water	MA Number: DEFAULT
pH: 12.0	Sample Date: 01122011	Sample Time: 12:50:00
% Solids :		

10.2 highest 3/29/11

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	20.0	ug/L	10.0	J D	U	Yes	S2BVE
Arsenic	15.4	ug/L	1.0		J	Yes	S2BVE
Barium	896	ug/L	10.0	D		Yes	S2BVE
Beryllium	70.3	ug/L	10.0	D		Yes	S2BVE
Cadmium	538	ug/L	100.0	D		Yes	S2BVE
Chromium	1340	ug/L	100.0	D		Yes	S2BVE
Cobalt	524	ug/L	10.0	D		Yes	S2BVE
Copper	36900	ug/L	1000.0	D		Yes	S2BVE
Lead	15100	ug/L	1000.0	D		Yes	S2BVE
Manganese	25200	ug/L	1000.0	D		Yes	S2BVE
Nickel	5560	ug/L	100.0	D		Yes	S2BVE
Selenium	242	ug/L	100.0	J D	J-	Yes	S2BVE
Silver	36.6	ug/L	100.0	J D	J-	Yes	S2BVE
Thallium	10.0	ug/L	10.0	D	U	Yes	S2BVE
Vanadium	639	ug/L	10.0	D		Yes	S2BVE
Zinc	67100	ug/L	1000.0	D	J+	Yes	S2BVE

So affected by blank contamination -
 Lab result is blank, report as U b/c
 if detected, it was > than RL

No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5320	Method:	Hg	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-3	pH:	12.0	Sample Date:	01122011	Sample Time:	12:50:00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	5.8	ug/L	1.0			Yes	S2BVE

Case No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	ME5320	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:	GW-3	pH:	12.0	Sample Date:	01122011	Sample Time:	12.50 00
% Moisture :		% Solids :					

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	1.7	ug/L	1.0	J	J	Yes	S2BVE

No:	40949	Contract:	EPW09044	SDG No:	ME52Z1	Lab Code:	STLV
Sample Number:	PBW	Method:	CN	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Cyanide	10.0	ug/L	1.0	U	U	Yes	
Cyanide	-1.4	ug/L	1.0	J	J	Yes	

Case No:	40949	Contract:	EPW09044	SDG No.	ME52Z1	Lab Code:	STLV
Sample Number:	PBW	Method:	ICP_MS	Matrix:	Water	MA Number:	DEFAULT
Sample Location:		pH:		Sample Date:		Sample Time:	
% Moisture :				% Solids :			

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Antimony	2.0	ug/L	1.0	J	U	Yes	
Arsenic	-0.45	ug/L	1.0	J	J	Yes	
Barium	10.0	ug/L	1.0	U	U	Yes	
Beryllium	-0.10	ug/L	1.0	J	J	Yes	
Cadmium	-0.12	ug/L	1.0	J	J	Yes	
Chromium	2.0	ug/L	1.0	U	U	Yes	
Cobalt	-0.11	ug/L	1.0	J	J	Yes	
Copper	2.0	ug/L	1.0	U	U	Yes	
Lead	-0.090	ug/L	1.0	J	J	Yes	
Manganese	1.0	ug/L	1.0	U	U	Yes	
Nickel	1.0	ug/L	1.0	U	U	Yes	
Selenium	-0.66	ug/L	1.0	J	J	Yes	
Silver	-0.16	ug/L	1.0	J	J	Yes	
Thallium	1.0	ug/L	1.0	J	U	Yes	
Vanadium	5.0	ug/L	1.0	U	U	Yes	
Zinc	2.0	ug/L	1.0	U	U	Yes	

No: 40949	Contract: EPW09044	SDG No: ME52Z1	Lab Code: STLV
Sample Number: PBW	Method: Hg	Matrix: Water	MA Number: DEFAULT
Sample Location:	pH:	Sample Date:	Sample Time:
% Moisture :	% Solids :		

Analyte Name	Result	Units	Dilution Factor	Lab Flag	Validation	Reportable	Validation Level
Mercury	0.042	ug/L	1.0	J	J	Yes	



USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 40949

DAS No:

SDG No: ME5221

L

Date Shipped: 1/13/2011 Carrier Name: FedEx Airbill: Shipped to: TestAmerica Laboratories, Inc 30 Community Drive, Suite 11 South Burlington VT 05403 (802) 660-1990	Chain of Custody Record		Sampler Signature:	For Lab Use Only Lab Contract No: _____ Unit Price: _____ Transfer To: _____ Lab Contract No: _____ Unit Price: _____	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1	<i>Supriya - Jha</i> 01/13/2011	<i>[Signature]</i>		1/14/11 1130
	2				
	3				
4					

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME		ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME5221	Ground Water/ Kirk Mammoliti	L/G	CN (7), ICP/MS (7)	5C-030484 (HNO3), 5C-030490 (NaOH) (2)	GW-1	S: 1/12/2011	9:15	E5221	
ME5222	Ground Water/ Kirk Mammoliti	L/G	CN (7), ICP/MS (7)	5C-030491 (HNO3), 5C-030496 (NaOH) (2)	GW-2	S: 1/12/2011	11:15	E5222	
ME5225	Surface Soil/ Kirk Mammoliti	L/C	ICP-AES (7)	5C-030468 (Not preserved) (1)	RS-1	S: 1/11/2011	15:48		
ME5227	Surface Soil/ Kirk Mammoliti	L/C	ICP-AES (7)	5C-030469 (Not preserved) (1)	RS-3	S: 1/11/2011	17:12		
ME5228	Ground Water/ Ryan M. Lunt	L/G	CN (7), ICP/MS (7)	5C-030470 (HNO3), 5C-030476 (NaOH) (2)	RW-1	S: 1/11/2011	15:57	E5228	
ME5300	Ground Water/ Ryan M. Lunt	L/G	CN (7), ICP/MS (7)	5C-030477 (HNO3), 5C-030483 (NaOH) (2)	RW-3	S: 1/11/2011	17:35	E5300	
ME5302	Ground Water/ Ryan M. Lunt	L/G	CN (7), ICP/MS (7)	5C-030537 (HNO3), 5C-030538 (HNO3), 5C-030554 (NaOH), 5C-030555 (NaOH) (4)	CW-2	S: 1/12/2011	11:07	E5302	
ME5303	Surface Water/ Ryan M. Lunt	L/G	CN (7), ICP/MS (7)	5C-030556 (HNO3), 5C-030557 (NaOH) (2)	CW-3	S: 1/12/2011	9:50		
ME5304	Surface Water/ Ryan M. Lunt	L/G	CN (7), ICP/MS (7)	5C-030558 (HNO3), 5C-030559 (NaOH) (2)	CW-4	S: 1/12/2011	10:11		
ME5305	Surface Water/ Ryan M. Lunt	L/G	CN (7), ICP/MS (7)	5C-030560 (HNO3), 5C-030561 (NaOH) (2)	CW-5	S: 1/12/2011	10:35		

Shipment for Case Complete? <i>YES</i>	Sample(s) to be used for laboratory QC: <i>ME5318</i>	Additional Sampler Signature(s): <i>Kirk Mammoliti</i>	Cooler Temperature Upon Receipt: <i>1.0°C</i>	Chain of Custody Seal Number: <i>111048</i>
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>
CN = Cyanide, ICP-AES = CLP TAL Total Metals/Hg/Cyanide (ICP-AES, ICP/MS = CLP TAL Total Metals/Hg ICP/MS)				

TR Number: 5-241334765-011311-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No. 40545

DAS No:

SDG No: ME5221

L

Date Shipped: 1/13/2011 Carrier Name: FedEx Airbill: Shipped to: TestAmerica Laboratories, Inc 30 Community Drive, Suite 11 South Burlington VT 05403 (802) 660-1990	Chain of Custody Record		Sampler Signature:		For Lab Use Only	
	Relinquished By	(Date / Time)	Received By	(Date / Time)	Lab Contract No: _____	
	1	<i>Ryan M. Lunt</i> 01/13/2011	<i>[Signature]</i>	1/14/11 1130	Unit Price: _____	
	2				Transfer To: _____	
	3				Lab Contract No: _____	
4				Unit Price: _____		

INORGANIC SAMPLE NO.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME5306	Surface Soil/ Kirk Mammoliti	L/C	ICP-AES (7)	5C-030528 (Not preserved) (1)	OS-1	S: 1/11/2011 15:07		
ME5307	Surface Soil/ Kirk Mammoliti	L/C	ICP-AES (7)	5C-030529 (Not preserved) (1)	OS-2	S: 1/11/2011 15:10		
ME5308	Surface Soil/ Ryan M. Lunt	L/C	ICP-AES (7)	5C-030530 (Not preserved) (1)	CS-5	S: 1/12/2011 8:40		
ME5309	Surface Soil/ Ryan M. Lunt	L/C	ICP-AES (7)	5C-030531 (Not preserved) (1)	CS-6	S: 1/12/2011 8:35		
ME5310	Surface Soil/ Ryan M. Lunt	L/C	ICP-AES (7)	5C-030533 (Not preserved) (1)	CS-7	S: 1/12/2011 9:15		
ME5311	Surface Soil/ Ryan M. Lunt	L/C	ICP-AES (7)	5C-030534 (Not preserved) (1)	CS-8	S: 1/12/2011 9:20		
ME5312	Surface Soil/ Ryan M. Lunt	L/C	ICP-AES (7)	5C-030535 (Not preserved) (1)	CS-9	S: 1/12/2011 12:35		
ME5313	Surface Soil/ Ryan M. Lunt	L/C	ICP-AES (7)	5C-030536 (Not preserved) (1)	CS-10	S: 1/12/2011 11:50		
ME5314	Ground Water/ Kirk Mammoliti	L/G	CN (7), ICP/MS (7)	5C-030497 (HNO ₃), 5C-030503 (NaOH) (2)	GW-2-FD	S: 1/12/2011 11:15	E5314	
ME5315	Ground Water/ Ryan M. Lunt	L/G	CN (7), ICP/MS (7)	5C-030511 (HNO ₃), 5C-030517 (NaOH) (2)	GW-FB	S: 1/11/2011 18:05	E5315	

Page 10 of 1134

Shipment for Case Complete?N	Sample(s) to be used for laboratory QC: <i>ME5318</i>	Additional Sampler Signature(s): <i>K. Mammoliti</i>	Cooler Temperature Upon Receipt: 1.0°C	Chain of Custody Seal Number: 111048
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>
CN = Cyanide, ICP-AES = CLP TAL Total Metals/Hg/Cyanide (ICP-AES, ICP/MS = CLP TAL Total Metals/Hg ICP/MS				

TR Number: 5-241334765-011311-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 40949
DAS No:
SDG No: ME5221 **L**

Date Shipped: 1/13/2011 Carrier Name: FedEx Airbill: Shipped to: TestAmerica Laboratories, Inc 30 Community Drive, Suite 11 South Burlington VT 05403 (802) 660-1990	Chain of Custody Record		Sampler Signature:	For Lab Use Only Lab Contract No: _____ Unit Price: _____ Transfer To: _____ Lab Contract No: _____ Unit Price: _____	
	Relinquished By	(Date / Time)	Received By		(Date / Time)
	1		<i>[Signature]</i>		1/14/11 1130
	2				
	3				
4					

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	FOR LAB USE ONLY Sample Condition On Receipt
ME5316	Ground Water/ Ryan M. Lunt	L/G	CN (7), ICP/MS (7)	5C-030518 (NaOH), 5C-030524 (HNO3) (2)	GW-Rinsate	S: 1/12/2011 16:10	E5316	
ME5318	Surface Soil/ Ryan M. Lunt	L/C	ICP-AES (7)	5C-030532 (Not preserved) (1)	CS-6-FD	S: 1/12/2011 8:35		
ME5320	Ground Water/ Kirk Mammoliti	L/G	CN (7), ICP/MS (7)	5C-030504 (HNO3), 5C-030509 (NaOH) (2)	GW-3	S: 1/12/2011 12:50	E5320	- SDG Final sample

Page 11 of 1134

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC:	Additional Sampler Signature(s):	Cooler Temperature Upon Receipt: 1.0°C	Chain of Custody Seal Number: 111048
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Custody Seal Intact? <input checked="" type="checkbox"/>	Shipment Iced? <input checked="" type="checkbox"/>
CN = Cyanide, ICP-AES = CLP TAL Total Metals/Hg/Cyanide (ICP-AES, ICP/MS = CLP TAL Total Metals/Hg ICP/MS				

TR Number: 5-241334765-011311-0003

PR provides preliminary results. Requests for preliminary results will increase analytical costs.
Send Copy to: Sample Management Office, 15000 Conference Center Dr., Chantilly, VA. 20151-3819 Phone 703/818-4200; Fax 703/818-4602

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SDG Narrative

TestAmerica Laboratories, Inc.

Date Submitted: January 28th, 2011

Contract: EP-W-09-044; Case: 40949; SDG: ME52Z1

Enclosed are analytical results for samples that were received by TestAmerica Burlington on January 14th, 2011. Laboratory identification numbers were assigned, and designated as follows:

<u>Lab ID</u>	<u>Client Sample ID</u>	<u>Sample Date</u>	<u>Sample Matrix</u>
Received: 1/14/11 Job No: 200-3334			
200-3334-1	ME52Z1	01/12/11	WATER
200-3334-2	ME52Z2	01/12/11	WATER
200-3334-3	ME52Z8	01/11/11	WATER
200-3334-4	ME5300	01/11/11	WATER
200-3334-5	ME5302	01/12/11	WATER
200-3334-5DP	ME5302D	01/12/11	WATER
200-3334-5MS	ME5302S	01/12/11	WATER
200-3334-6	ME5303	01/12/11	WATER
200-3334-7	ME5304	01/12/11	WATER
200-3334-8	ME5305	01/12/11	WATER
200-3334-9	ME5314	01/12/11	WATER
200-3334-10	ME5315	01/11/11	WATER
200-3334-11	ME5316	01/12/11	WATER
200-3334-12	ME5320	01/12/11	WATER

The condition of the samples and the issues identified at the time of sample log-in are detailed in the Sample Handling section at the end of this submittal. The temperature of the shipping container was determined at the time of receipt using an infrared wavelength determinative method. A temperature blank was included in the shipments received on January 14th, 2011. The temperature of the shipment was 1.0 °C, 0.2 °C, and 0.1°C. The sample volumes were logged into the laboratory for analysis and maintained in refrigerated storage at 4 °C.

The TR/COC did not designate a sample as laboratory QC, however per the scheduling for this case laboratory QC is required. With direction from Region 5 the laboratory selected sample ME53021 for laboratory QC (email resolution dated 1/14/2011 at 1:37 pm).

Sample ME52Z2 for Cyanide analysis was received at a pH of 7. The laboratory was directed to adjust the sample pH to greater than 12 with NaOH and note the issue in the SDG Narrative (email resolution dated 1/14/11 at 2:38 pm).

The TR/COC and sample tag list the analysis for water sample ME5302 with a tag number of 5C-030554 as CN; however, the sample label attached to the container listed the analysis as ICP-MS and Hg. The sample was received with a pH of 13 so the laboratory suspected the sample should have been designated for Cyanide in accordance with the sample tag and TR/COC. Per Region 5, water sample ME5302 with the tag number of 5C-030554 is for Cyanide analysis. The laboratory was directed to note the issue in the SDG narrative and proceed with analysis (email resolution dated 1/14/11 at 2:38 pm).

The TR/COC and sample tags list a sample ID of ME5320; however, the container label lists the ID as ME52Z3. Per Region 5 the laboratory was directed to use the TR/COC and sample tag of ME5320, note the issue in the SDG Narrative and proceed with the analysis of the samples (email resolution dated 1/14/11 at 2:38 pm).

There were discrepancies between the sample preservation as listed on the sample tag and/ or sample containers and or the TR/COC according to the table below.

Sample ID	Sample Tag	Preservation as listed on Tag	Preservation as listed on sample Container	Actual Preservation
ME52Z1	5C-030484	Not listed on tag	HNO3	HNO3
ME52Z1	5C-030490	HNO3	NaOH	NaOH
ME52Z2	5C-030491	Not listed on tag	HNO3	HNO3
ME52Z2	5C-030496	Not listed on tag	NaOH	NaOH
ME5302	5C-030554	HNO3	HNO3	NaOH
ME5304	5C-030559	HNO3	NaOH	NaOH
ME5315	5C-030517	Not listed on tag	NaOH	NaOH

Per region 5 the laboratory was directed to use the actual preservation corresponding with the TR/COC and to note the issue in the SDG Narrative and proceed with analysis (email resolution dated 1/14/11 at 2:38 pm).

The air bill was not listed on the TR/COC. The laboratory was directed to note the issue in the SDG narrative (email resolution dated 1/14/11 at 2:38 pm).

The sampler did not sign the second and third pages of the TR/COC. The samplers relinquished the first page. Per Region 5, the laboratory was directed to note the issue in the SDG Narrative and proceed with the analysis of the samples (email resolution dated 1/14/11 at 2:38 pm).

Metals by USEPA Method ISM01.2 (ICP/MS)

The target analytes under evaluation were antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper lead, manganese, nickel, selenium, silver, thallium, vanadium and zinc.

The samples were analyzed by the referenced method. Matrix spike and replicate analysis were performed on sample ME5302. There was an acceptable recovery of each spiked

element in the matrix spike analysis. The replicate analysis that was performed on sample ME5302 did yield results with an acceptable (unqualified) correlation in the interanalysis comparison. Laboratory control samples were prepared and analyzed in association with the samples and there was an acceptable recovery of each analyte in those analyses. A serial dilution analysis was performed on the digestate of sample ME5302 and that analysis gave no indication of matrix interference specific to the elements under evaluation. Trace concentrations of aluminum and thallium, and negative offsets specific to arsenic, beryllium, cadmium, cobalt, lead, selenium, and silver were identified in the analysis of the method blanks associated with the analytical work. The concentration levels, and offsets were within the acceptance criteria for a compliant method blank analysis.

With the following exceptions, all instrument calibration, calibration check, and performance check criteria, as specified in the ISM01.2 Statement of Work, were met in the execution of the analytical work:

The back calculation of vanadium in the second calibration point did yield values that did not meet the 30 percent difference criterion. The percent difference for vanadium was 33 percent.

The following is an example calculation for deriving a result for an aqueous sample:

$$C_{(\mu\text{g/L})} = \frac{\mu\text{g}}{L_{\text{dig}}} * \frac{V_{\text{dig}}}{V_{\text{samp}}}$$

Where:

$\mu\text{g/L}_{\text{dig}}$ = Instrument result adjusted for dilution factors

V_{dig} = Final digestate volume in liters

V_{samp} = Sample volume in liters

Mercury by USEPA Method ISM01.2 (CVAA - Dissolved)

The samples in this sample set were analyzed by the referenced method. Matrix spike and replicate analysis were performed on sample ME5302. There was an acceptable recovery of mercury in the matrix spike analysis. The replicate analyses that were performed on sample ME5302 did yield results with an acceptable (unqualified) correlation in the interanalysis comparison. A trace concentration of mercury was identified in the analysis of the method blank associated with the analytical work. The concentration level in that analysis was within the method prescribed tolerances.

All instrument calibration, calibration check, and performance check criteria, as specified in the ISM01.2 Statement of Work, were met in the execution of the analytical work.

The following is an example calculation for deriving a result for an aqueous sample:

$$C_{(\mu\text{g/L})} = \frac{\mu\text{g}}{L_{\text{dig}}} * \frac{V_{\text{dig}}}{V_{\text{samp}}}$$

Where:

$\mu\text{g}/\text{L}_{\text{dig}}$ = Instrument result adjusted for dilution factors

V_{dig} = Final digestate volume in liters

V_{samp} = Sample volume in liters

Cyanide by USEPA Method ISM01.2

The samples in this sample set were analyzed by the referenced method. Matrix spike and replicate analysis were performed on sample ME5302. There was an acceptable recovery of cyanide in the matrix spike analysis. The replicate analyses that were performed on sample ME5302 did yield results with an acceptable (unqualified) correlation in the interanalysis comparison. A negative offset of cyanide was identified in the analysis of one of the method blanks associated with the analytical work. The offset level in that analysis was within the method prescribed tolerances.

All instrument calibration, calibration check, and performance check criteria, as specified in the ISM01.2 Statement of Work, were met in the execution of the analytical work.

The following is an example calculation for deriving a result for an aqueous sample:

$$C_{(\mu\text{g}/\text{L})} = \frac{\mu\text{g}}{L_{\text{dig}}} * \frac{V_{\text{dig}}}{V_{\text{samp}}}$$

Where:

$\mu\text{g}/\text{L}_{\text{dig}}$ = Instrument result adjusted for dilution factors

V_{dig} = Final digestate volume in liters

V_{samp} = Sample volume in liters

I certify that this Sample Data Package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy Sample Data Package and in the electronic data deliverable has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

William S. Cicero

William S. Cicero
Laboratory Director

FOR

01/28/11
Date

Enclosure

Kelly, Kathryn

From: Mroz, Ryan [rmroz@fedcsc.com]
Sent: Friday, January 14, 2011 1:37 PM
To: Kelly, Kathryn; Lavigne, Rayburn; stlv-usepa-clp
Cc: rlunt@seagullenvirotech.com; Carlene Thomas; Howard Pham; roberman.alida@epa.gov; Prendiville.Timothy@epamail.epa.gov; Warren Layne
Subject: Region 05 | Case 40949 | Lab STLV | SDG ME52Z1 | Issue Insufficient/inappropriate designation of laboratory QC | FINAL

Kathryn,

Summary Start

Issue: The TR/COC does not designate a sample as laboratory QC for SDG ME52Z1; however, per Scheduling laboratory QC is required. The laboratory would like to select sample ME5302 as laboratory QC for SDG ME52Z1. Resolution: In accordance with previous direction from Region 5, the laboratory will select a sample for laboratory QC as long as the sample is not a PE, blank, or rinsate sample. The laboratory will note the issue in the SDG Narrative, notify the SMO coordinator of the sample selected for laboratory QC, and proceed with the analysis of the samples. If the laboratory is not sure that the sample they selected is not a PE, blank, or rinsate sample, they will contact SMO and wait for a resolution from the Region.

Summary End

Please note: To waive any defect(s) associated with this issue, please contact your PO.

Let me know if you have any additional questions.

Thank you,
 Ryan Mroz
 Environmental Coordinator - Regions 5 & 8
 CSC

15000 Conference Center Drive Chantilly, VA 20151
 Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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From: Kelly, Kathryn [mailto:Kathryn.Kelly@testamericainc.com]
Sent: Friday, January 14, 2011 12:24 PM
To: Mroz, Ryan
Subject: RE: Region 05 | Case 40949 | SDG ME52Z1 | Lab STLV | Issue Lab QC

Ryan,
 Given the additional volumes; yes the laboratory would like to select ME5302.

Thank you,
 Kathryn Kelly
 Project Management Assistant
 02.923.1021

From: Mroz, Ryan [mailto:rmroz@fedcsc.com]
Sent: Friday, January 14, 2011 12:24 PM
To: Kelly, Kathryn
Subject: Region 05 | Case 40949 | SDG ME52Z1 | Lab STLV | Issue Lab QC

Kathryn,

If there is no sample designated, would the lab like to select ME5302 as laboratory QC?

Ryan Mroz
 Environmental Coordinator - Regions 5 & 8
 CSC

15000 Conference Center Drive Chantilly, VA 20151
 Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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From: Kelly, Kathryn [mailto:Kathryn.Kelly@testamericainc.com]
Sent: Friday, January 14, 2011 12:10 PM
To: Mroz, Ryan
Cc: stlv-usepa-clp; Keeton, Jamie
Subject: Region 05 | Case 40949 | SDG ME52Z1 | Lab STLV | Issue Lab QC

Ryan,

The laboratory received samples for Case 40949 today and is in the process of logging them in. The laboratory received 4 sample volumes for water sample ME5302 (please see the attached TR/COC). The TR/COC does not designate a water sample for lab QC; does the region intend the additional volumes received for sample ME5302 to be used as laboratory QC?

Thanks so much,

Kathryn Kelly
 Project Management Assistant


TestAmerica
 THE LEADER IN ENVIRONMENTAL TESTING

30 Community Drive, Suite 11
 South Burlington, VT 05403
 Tel 802.660.1990 | Fax 802.660.1919
www.testamericainc.com

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Please consider the environment before printing this e-mail

Kelly, Kathryn

 Mroz, Ryan [rmroz@fedcsc.com]
 Friday, January 14, 2011 2:38 PM
To: Young, Kirk; Chirgwin, Karen; Kelly, Kathryn; Lavigne, Rayburn
Subject: Region 05 | Case 40949 | Lab STLV | SDG ME52Z1 | Issue pH outside allowable limits | FINAL

Kathryn,

Summary Start

Issue: Sample ME52Z2 for CN analysis was received at a pH of 7.

Resolution: In accordance with previous direction from Region 5, the laboratory will adjust the sample pH to greater than 12 with NaOH and note the issue in the SDG Narrative.

Summary End

Please note: To waive any defect(s) associated with this issue, please contact your PO.

Let me know if you have any additional questions.

Thanks,

Ryan Mroz
 Environmental Coordinator - Regions 5 & 8
 CSC

15000 Conference Center Drive Chantilly, VA 20151

Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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From: Kelly, Kathryn [mailto:Kathryn.Kelly@testamericainc.com]
Sent: Friday, January 14, 2011 2:26 PM
To: Mroz, Ryan
Cc: stlv-usepa-clp
Subject: Region 05 | Case 40949 | Lab STLV | SDG ME52Z1 | Issue pH outside allowable limits


Ryan,

The laboratory is in the process of logging in the water samples for SDG ME52Z1. There is a list of issues that I will copy you on once the laboratory has finished logging in the samples. The volume for sample ME52Z2 with a sample tag of 5C-030496 that was designated for Cyanide was received with a pH of 7. Please advise.

Thank you,

Kathryn Kelly
 Project Management Assistant

estAmerica
 HELPER IN ENVIRONMENTAL TESTING

 Community Drive, Suite 11
 South Burlington, VT 05403
 Tel 802.660.1990 | Fax 802.660.1919
www.testamericainc.com

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Please consider the environment before printing this e-mail.

Kelly, Kathryn



Mroz, Ryan [rmroz@fedcsc.com]

Monday, January 17, 2011 9:15 AM

To: Young, Kirk; Chirgwin, Karen; Kelly, Kathryn; Lavigne, Rayburn

Subject: Region 05 | Case 40949 | Lab STLV | SDG ME52Z1 | Issue Documentation | FINAL

Kathryn,

Summary Start

Discrepancies with tags, jars, and/or TR/COC-

Issue 1: The TR/COC and sample tag list the analysis for water sample ME5302 tag number of 5C-030554 as CN; however the sample label attached to the container list the analysis as ICP-MS and Hg. The sample was received with a pH of 13 so the laboratory suspects the sample should have been designated for Cyanide in accordance with the sample tag and TR/COC.

Resolution 1: Per Region 5, water sample ME5302 with the tag number of 5C-030554 is for CN analysis. The lab shall follow the TR/COC and sample tag and note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 2: The TR/COC and sample tags lists a sample ID of ME5320; however, the container label lists the ID as ME52Z3

Resolution 2: Per Region 5, the laboratory shall use the TR/COC and sample tag of ME5320, note the issue in the SDG Narrative and proceed with the analysis of the samples

Issue 3: There are discrepancies between the sample preservation as listed on the sample tag and/or sample containers and/or the TR/COC according to the table below.

Resolution 3: Per Region 5, the laboratory shall use the actual preservation corresponding with the TR/COC preservation listed, note the Issue in the SDG Narrative and proceed with analysis.

Sample ID	Sample Tag #	Preservation as listed on Tag	Preservation as listed on sample Container	TR/COC Preservation	Actual Preservation
ME52Z1	5C-030484	Not listed on tag	HNO3	HNO3	HNO3
ME52Z1	5C-030490	HNO3	NaOH	NaOH	NaOH
ME52Z2	5C-030491	Not listed on tag	HNO3	HNO3	HNO3
ME52Z2	5C-030496	Not listed on tag	NaOH	NaOH	NaOH
ME5302	5C-030554	HNO3	HNO3	NaOH	NaOH
ME5304	5C-030559	HNO3	NaOH	NaOH	NaOH
ME5315	5C-030517	Not listed on tag	NaOH	NaOH	NaOH

Issue 4: The airbill number was not listed on the TR/COC.

Resolution 4: In accordance with previous direction from Region 5, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Missing signatures on TR/COC-

Issue 5: The sampler did not sign the second and third pages of the TR/COC. The first page of the TR/COC is relinquished by the sampler.

Resolution 5: Per Region 5, the laboratory shall note the issue in the SDG Narrative and proceed with the analysis of the samples.

Summary End

Please let me know if you have any additional questions

Thanks,

Please note: To waive any defect(s) associated with this issue, please contact your PO.

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151

Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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-----Original Message-----

From: Roberman.Alida@epamail.epa.gov [mailto:Roberman.Alida@epamail.epa.gov]

Sent: Friday, January 14, 2011 5:07 PM

To: Mroz, Ryan

Cc: Thomas.Carlene@epamail.epa.gov; Pham.Howard@epamail.epa.gov; Prendiville.Timothy@epamail.epa.gov;

Layne.Warren@epamail.epa.gov

Subject: Re: Region 05 | Case 40949 | Lab STLV | SDG ME52Z1 | Issue Documentation

Ryan,

The proposed resolutions are acceptable for issues 1,2,3, and 5

Have a nice long weekend!

Alida Roberman, Ph.D
Chemist,
77 West Jackson Blvd
Chicago, IL 60604-3608
tel.: 312-886-7185
fax: 312-697-2066

From: Mroz, Ryan

Sent: Friday, January 14, 2011 4:50 PM

To: 'Kelly, Kathryn'; 'Lavigne, Rayburn'; stlv-usepa-clp

Subject: Region 05 | Case 40949 | Lab STLV | SDG ME52Z1 | Issue Documentation

Kathryn,

I am not sure if Region 5 will be able to provide an answer on the issues below today. For your information here are the PROPOSED Resolutions provided by the sampler and not yet approved by Region 5 for Issues 1, 2, 3, and 5. Issue 4 is an approved standard answer resolution. When I hear back from the Region I will send a FINAL ROC.

-Discrepancies with tags, jars, and/or TR/COC-

Issue 1: The TR/COC and sample tag list the analysis for water sample ME5302 tag number of 5C-030554 as CN; however the sample label attached to the container list the analysis as ICP-MS and Hg. The sample was received with a pH of 13 so the laboratory suspects the sample should have been designated for Cyanide in accordance with the sample tag and TR/COC.

PROPOSED Resolution 2: Per Region 5, water sample ME5302 with the tag number of 5C-030554 is for CN analysis. The lab shall follow the TR/COC and sample tag and note the issue in the SDG Narrative and proceed with

Page 1129 of 1134

1/17/2011

the analysis of the samples.

Issue 2: The TR/COC and sample tags lists a sample ID of ME5320; however, the container label lists the ID as ME5323.

PROPOSED Resolution 2: Per Region 5, the laboratory shall use the TR/COC and sample tag of ME5320, note the issue in the SDG Narrative and proceed with the analysis of the samples

Issue 3: There are discrepancies between the sample preservation as listed on the sample tag and/or sample containers and/or the TR/COC according to the table below.

PROPOSED Resolution 3: Per Region 5, the laboratory shall use the actual preservation corresponding with the TR/COC preservation listed, note the Issue in the SDG Narrative and proceed with analysis.

Sample ID	Sample Tag #	Preservation as listed on Tag	Preservation as listed on sample Container	TR/COC Preservation	Actual Preservation
ME52Z1	5C-030484	Not listed on tag	HNO3	HNO3	HNO3
ME52Z1	5C-030490	HNO3	NaOH	NaOH	NaOH
ME52Z2	5C-030491	Not listed on tag	HNO3	HNO3	HNO3
ME52Z2	5C-030496	Not listed on tag	NaOH	NaOH	NaOH
ME5302	5C-030554	HNO3	HNO3	NaOH	NaOH
ME5304	5C-030559	HNO3	NaOH	NaOH	NaOH
ME5315	5C-030517	Not listed on tag	NaOH	NaOH	NaOH

Issue 4: The airbill number was not listed on the TR/COC.

Resolution 4: In accordance with previous direction from Region 5, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

-Missing signatures on TR/COC-

Issue 5: The sampler did not sign the second and third pages of the TR/COC. The first page of the TR/COC is reviewed by the sampler.

PROPOSED Resolution 5: Per Region 5, the laboratory shall note the issue in the SDG Narrative and proceed with the analysis of the samples.

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151

Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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From: Mroz, Ryan

Sent: Friday, January 14, 2011 4:38 PM

To: 'Carlene Thomas'; 'Howard Pham'; 'roberman.alida@epa.gov'; 'Tim Prendiville (Prendiville.Timothy@epamail.epa.gov)';

Wendy Layne'

Subject: Region 05 | Case 40949 | Lab STL | SDG ME52Z1 | Issue Documentation

Alida,

STLV is reporting the following Issues with Case 40949. Please advise if the PROPOSED Resolutions are acceptable for Issues 1, 2, 3, and 5.

-Discrepancies with tags, jars, and/or TR/COC-

Issue 1: The TR/COC and sample tag list the analysis for water sample ME5302 tag number of 5C-030554 as CN however the sample label attached to the container list the analysis as ICP-MS and Hg. The sample was received with a pH of 13 so the laboratory suspects the sample should have been designated for Cyanide in accordance with the sample tag and TR/COC.

PROPOSED Resolution 2: Per Region 5, water sample ME5302 with the tag number of 5C-030554 is for CN analysis. The lab shall follow the TR/COC and sample tag and note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 2: The TR/COC and sample tags lists a sample ID of ME5320; however, the container label lists the ID as ME52Z3

PROPOSED Resolution 2: Per Region 5, the laboratory shall use the TR/COC and sample tag of ME5320, note the issue in the SDG Narrative and proceed with the analysis of the samples

Issue 3: There are discrepancies between the sample preservation as listed on the sample tag and/or sample containers and/or the TR/COC according to the table below.

PROPOSED Resolution 3: Per Region 5, the laboratory shall use the actual preservation corresponding with the TR/COC preservation listed, note the Issue in the SDG Narrative and proceed with analysis.

Sample ID	Sample Tag #	Preservation as listed on Tag	Preservation as listed on sample Container	TR/COC Preservation	Actual Preservation
ME52Z1	5C-030484	Not listed on tag	HNO3	HNO3	HNO3
ME52Z1	5C-030490	HNO3	NaOH	NaOH	NaOH
ME52Z2	5C-030491	Not listed on tag	HNO3	HNO3	HNO3
ME52Z2	5C-030496	Not listed on tag	NaOH	NaOH	NaOH
ME5302	5C-030554	HNO3	HNO3	NaOH	NaOH
ME5304	5C-030559	HNO3	NaOH	NaOH	NaOH
ME5315	5C-030517	Not listed on tag	NaOH	NaOH	NaOH

Issue 4: The airbill number was not listed on the TR/COC.

Resolution 4: In accordance with previous direction from Region 5, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

-Missing signatures on TR/COC-

Issue 5: The sampler did not sign the second and third pages of the TR/COC. The first page of the TR/COC is relinquished by the sampler.

PROPOSED Resolution 5: Per Region 5, the laboratory shall note the issue in the SDG Narrative and proceed with the analysis of the samples.

Let me know if you have any questions.

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151

Civil Division | phone: 703.818.4568 | fax: 703.818.4602 | rmroz@fedcsc.com | www.csc.com

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From: Ryan Lunt [mailto:rlunt@seagullenvirotech.com]

Sent: Friday, January 14, 2011 4:22 PM

To: Mroz, Ryan

CC: Carlene Thomas; Howard Pham; roberman.alida@epa.gov; Prendiville.Timothy@epamail.epa.gov; Warren Layne

Subject: Re: Region 05 | Case 40949 | Lab STLV | SDG ME52Z1 | Issue Documentation

Ryan,

-Discrepancies with tags, jars, and/or TR/COC-

Issue 1: The TR/COC and sample tag list the analysis for water sample ME5302 tag number of 5C-030554 as CN; however the sample label attached to the container list the analysis as ICP-MS and Hg. The sample was received with a pH of 13 so the laboratory suspects the sample should have been designated for Cyanide in accordance with the sample tag and TR/COC.

Resolution 1: For water sample ME5302 tag number of 5C-030554 please designate for Cyanide. Please follow the TR/COC and sample tag and note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 2: The TR/COC and sample tags lists a sample ID of ME5320; however, the container label lists the ID as ME52Z3

Resolution 2: Please use the TR/COC and sample tag of ME5320. Note the issue in the SDG Narrative and proceed with the analysis of the samples.

Issue 3: There are discrepancies between the sample preservation as listed on the sample tag and/or sample containers and/or the TR/COC according to the table below:

Resolution 3: Please follow the TR/COC and note the issue in the SDG Narrative and proceed with the analysis of the samples.

-Missing signatures on TR/COC-

Issue 5: The sampler did not sign the second and third pages of the TR/COC.

Resolution 5: Please note the issue in the SDG Narrative and proceed with the analysis of the samples.

Thank you for your help,

Ryan M. Lunt

Environmental Scientist

Seagull Environmental Technologies, Inc.

Woman-Owned, 8(a) Firm

Phone: (816) 412-1741

Fax: (816) 410-1748

Email: rlunt@seagullenvirotech.com

From: Mroz, Ryan

Sent: Friday, January 14, 2011 3:47 PM

To: 'rlunt@seagullenvirotech.com'

CC: 'Carlene Thomas'; 'Howard Pham'; 'roberman.alida@epa.gov'; 'Tim Prendiville (Prendiville.Timothy@epamail.epa.gov)'; Warren Layne'

Subject: Region 05 | Case 40949 | Lab STLV | SDG ME52Z1 | Issue Documentation

Ryan,

STLV is reporting the following Issues with Case 40949. Please advise the laboratory how to proceed on issues 1, 2, 3, and 5.

-Discrepancies with tags, jars, and/or TR/COC-

Issue 1: The TR/COC and sample tag list the analysis for water sample ME5302 tag number of 5C-030554 as CN; however the sample label attached to the container list the analysis as ICP-MS and Hg. The sample was received with a pH of 13 so the laboratory suspects the sample should have been designated for Cyanide in accordance with the sample tag and TR/COC.

Issue 2: The TR/COC and sample tags lists a sample ID of ME5320; however, the container label lists the ID as ME52Z3

Issue 3: There are discrepancies between the sample preservation as listed on the sample tag and/or sample containers and/or the TR/COC according to the table below:

Issue 4: The airbill number was not listed on the TR/COC.

Resolution 4: In accordance with previous direction from Region 5, the laboratory will note the issue in the SDG Narrative and proceed with the analysis of the samples.

Sample ID	Sample Tag #	Preservation as listed on Tag	Preservation as listed on sample Container	TR/COC Preservation	Actual Preservation
ME52Z1	5C-030484	Not listed on tag	HNO3	HNO3	HNO3
ME52Z1	5C-030490	HNO3	NaOH	NaOH	NaOH
ME52Z2	5C-030491	Not listed on tag	HNO3	HNO3	HNO3
ME52Z2	5C-030496	Not listed on tag	NaOH	NaOH	NaOH
ME5302	5C-030554	HNO3	HNO3	NaOH	NaOH
ME5304	5C-030559	HNO3	NaOH	NaOH	NaOH
ME5315	5C-030517	Not listed on tag	NaOH	NaOH	NaOH

-Missing signatures on TR/COC-

Issue 5: The sampler did not sign the second and third pages of the TR/COC.

Please let me know if you have any questions.
Thanks,

Ryan Mroz
Environmental Coordinator - Regions 5 & 8
CSC

15000 Conference Center Drive Chantilly, VA 20151

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From: Kelly, Kathryn [<mailto:Kathryn.Kelly@testamericainc.com>]
Sent: Friday, January 14, 2011 3:03 PM
To: Mroz, Ryan
Cc: stlv-usepa-clp
Subject: Region 05 | Case 40949 | Lab STLV | SDG ME52Z1 | Issue Multiple

Ryan,

Please see below for the final list of issues that the laboratory noted in their log in of SDG ME52Z1

- Sample ME5302 was received with 4 sample volumes. Per the sample labels the laboratory received 3 volumes for ICP-MS/ Hg and 1 volume for Cyanide. The volume with a tag number of 5C-030554 was received with a discrepancy between the sample tag and sample label. The sample tag designates the sample for Cyanide analysis, and the sample label attached to the container designates the sample for ICP-MS/Hg analyses. The sample was received with a pH of 13 so the laboratory suspects the sample should have been designated for Cyanide in accordance with the sample tag. Please advise.
- The TR/COC lists a sample ID of ME5320. Both of the sample volumes for this sample were received with the sample ID of ME52Z3 on the sample label attached to the sample container. The sample tag designates this sample as ME5320 and that corresponds with the TR/COC. Please advise.
- There were several discrepancies between the sample preservation as listed on the sample tag and sample containers. Please see below.

Sample ID	Sample Tag #	Preservation as listed on Tag	Preservation as listed on sample Container	Actual Preservation
ME52Z1	5C-030484	Not listed on tag	HNO3	HNO3
ME52Z1	5C-030490	HNO3	NaOH	NaOH
ME52Z2	5C-030491	Not listed on tag	HNO3	HNO3
ME52Z2	5C-030496	Not listed on tag	NaOH	NaOH
ME5302	5C-030554	HNO3	HNO3	NaOH
ME5304	5C-030559	HNO3	NaOH	NaOH
ME5315	5C-030517	Not listed on tag	NaOH	NaOH

- The second and third pages of the TR/COC were not relinquished.
- There was no airbill listed on the TR/COC.

These samples are on a 7 day TAT so a speedy response to the issues listed above is appreciated.

Thank you so much!

Kathryn Kelly
Project Management Assistant

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South Burlington, VT 05403
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Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

SOW No.: ISM01.2

EPA Sample No.	Lab Sample ID
ME52Z1	200-3334-1
ME52Z2	200-3334-2
ME52Z8	200-3334-3
ME5300	200-3334-4
ME5302	200-3334-5
ME5302D	200-3334-5
ME5302S	200-3334-5
ME5303	200-3334-6
ME5304	200-3334-7
ME5305	200-3334-8
ME5314	200-3334-9
ME5315	200-3334-10
ME5316	200-3334-11
ME5320	200-3334-12

Were ICP-AES and ICP-MS interelement
corrections applied?

(Yes/No)

ICP-AES

YES

ICP-MS

YES

Were ICP-AES and ICP-MS background corrections
applied?

(Yes/No)

YES

YES

If yes, were raw data generated before
application of background corrections?

(Yes/No)

NO

NO

The laboratory did not receive any instructions with this SDG to modify the SOW standard laboratory sample preparation procedures (e.g., subsampling). To aid in the determination of data usability with respect to project decisions, any modifications performed are described below.

Comments:

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the electronic data submitted has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature

Signature:

Rayburn J. Lavigne

Name:

Rayburn J. Lavigne

Date:

01/28/11

Title:

Project Manager

COVER PAGE

ISM01.2 (1/10)

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME52Z1

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: _____ SDG No.: ME52Z1
Matrix: WATER Lab Sample Id: 200-3334-1
% Solids: _____ Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.65	J		MS
7440-38-2	Arsenic	24.9		D	MS
7440-39-3	Barium	856		D	MS
7440-41-7	Beryllium	0.59	J		MS
7440-43-9	Cadmium	0.18	J		MS
7440-47-3	Chromium	34.3			MS
7440-48-4	Cobalt	11.0		D	MS
7440-50-8	Copper	30.1			MS
7439-92-1	Lead	30.8		D	MS
7439-96-5	Manganese	1450		D	MS
7440-02-0	Nickel	43.7			MS
7782-49-2	Selenium	34.4			MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	0.22	J		MS
7440-62-2	Vanadium	34.2			MS
7440-66-6	Zinc	258		D	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
Color After: PALE YELLOW Clarity After: CLOUDY Artifacts: _____
Comments: _____

ME52Z1

Contract: EPW09044

Mod. Ref. No.: SDG No.: ME52Z1

Lab Sample Id: 200-3334-1

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.21			CV

Texture:

Artifacts:

Comments:

USEPA - CLP
1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

ME52Z2

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Matrix: WATER

Lab Sample Id: 200-3334-2

% Solids:

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.76	J		MS
7440-38-2	Arsenic	95.8			MS
7440-39-3	Barium	312		D	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.65	J		MS
7440-47-3	Chromium	2.6			MS
7440-48-4	Cobalt	2.9			MS
7440-50-8	Copper	40.2			MS
7439-92-1	Lead	27.5		D	MS
7439-96-5	Manganese	4700		D	MS
7440-02-0	Nickel	12.3			MS
7782-49-2	Selenium	106		D	MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	0.10	J		MS
7440-62-2	Vanadium	4.8	J		MS
7440-66-6	Zinc	40.9			MS

Color Before: YELLOW

Clarity Before: CLEAR

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

ME52Z2

Lab Name:	<u>TESTAMERICA BURLINGTON</u>	Contract:	<u>EPW09044</u>
Lab Code:	<u>STLV</u>	Case No.:	<u>40949</u>
		Mod. Ref. No.:	<u> </u>
		SDG No.:	<u>ME52Z1</u>
Matrix:	<u>WATER</u>	Lab Sample Id:	<u>200-3334-2</u>
% Solids:		Date Received:	<u>01/14/2011</u>

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.23			CV

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments: _____

EPA SAMPLE NO.

ME52Z2

Contract: EPW09044

Mod. Ref. No.: SDG No.: ME52Z1

Lab Sample Id: 200-3334-2

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
57-12-5	Cyanide	10.0	U		AS

Color After: Clarity After: Artifacts:

Comments:

ME5228

Contract: EPW09044

Mod. Ref. No.: SDG No.: ME52Z1

Lab Sample Id: 200-3334-3

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.34	J		MS
7440-38-2	Arsenic	2.0			MS
7440-39-3	Barium	192		D	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	0.99	J		MS
7440-50-8	Copper	2.0	U		MS
7439-92-1	Lead	0.11	J		MS
7439-96-5	Manganese	495		D	MS
7440-02-0	Nickel	2.5			MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	0.083	J		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	4.0			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ME5228

Lab Name:	TESTAMERICA BURLINGTON	Contract:	EPW09044
Lab Code:	STLV	Case No.:	40949
Mod. Ref. No.:		SDG No.:	ME52Z1
Matrix:	WATER	Lab Sample Id:	200-3334-3
% Solids:		Date Received:	01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.20	U		CV

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments: _____

ME5228

Lab Name:	TESTAMERICA BURLINGTON	Contract:	EPW09044
Lab Code:	STLV	Case No.:	40949
Mod. Ref. No.:		SDG No.:	ME52Z1
Matrix:	WATER	Lab Sample Id:	200-3334-3
% Solids:		Date Received:	01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
57-12-5	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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EPA SAMPLE NO.

ME5300

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME5221

Matrix: WATER

Lab Sample Id: 200-3334-4

% Solids:

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.48	J		MS
7440-38-2	Arsenic	4.9			MS
7440-39-3	Barium	81.8	J	D	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.54	J		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	46.2			MS
7439-92-1	Lead	0.13	J		MS
7439-96-5	Manganese	9.6			MS
7440-02-0	Nickel	0.98	J		MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	0.079	J		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	74.9			MS

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

ME5300

Lab Name:	<u>TESTAMERICA BURLINGTON</u>	Contract:	<u>EPW09044</u>
Lab Code:	<u>STLV</u>	Case No.:	<u>40949</u>
Mod. Ref. No.:	<u>-</u>	SDG No.:	<u>ME52Z1</u>
Matrix:	<u>WATER</u>	Lab Sample Id:	<u>200-3334-4</u>
% Solids:		Date Received:	<u>01/14/2011</u>

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.059	J		CV

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments: _____

ME5302

Contract: EPW09044

Mod. Ref. No.: SDG No.: ME5221

Lab Sample Id: 200-3334-5

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.89	J		MS
7440-38-2	Arsenic	5.2			MS
7440-39-3	Barium	11.8			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.93	J		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	1.4	J		MS
7439-92-1	Lead	0.18	J		MS
7439-96-5	Manganese	1.0	U		MS
7440-02-0	Nickel	0.65	J		MS
7782-49-2	Selenium	17.8			MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	0.13	J		MS
7440-62-2	Vanadium	1.8	J		MS
7440-66-6	Zinc	3.1			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

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EPA SAMPLE NO.

ME5302

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Matrix: WATER

Lab Sample Id: 200-3334-5

% Solids:

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.046	J		CV

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

ME5302

Lab Name:	TESTAMERICA BURLINGTON	Contract:	EPW09044
Lab Code:	STLV	Case No.:	40949
		Mod. Ref. No.:	SDG No.: ME52Z1
Matrix:	WATER	Lab Sample Id:	200-3334-5
% Solids:		Date Received:	01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
57-12-5	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments: _____

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EPA SAMPLE NO.

ME5303

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: _____ SDG No.: ME52Z1

Matrix: WATER

Lab Sample Id: 200-3334-6

% Solids: _____

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	20.5		D	MS
7440-38-2	Arsenic	23.4		D	MS
7440-39-3	Barium	98.9			MS
7440-41-7	Beryllium	0.26	J		MS
7440-43-9	Cadmium	3.5			MS
7440-47-3	Chromium	0.90	J		MS
7440-48-4	Cobalt	0.53	J		MS
7440-50-8	Copper	62.5			MS
7439-92-1	Lead	96.4		D	MS
7439-96-5	Manganese	33.6			MS
7440-02-0	Nickel	21.1			MS
7782-49-2	Selenium	35.4			MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	1.6			MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	225		D	MS

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: COLORLESS

Clarity After: CLEAR

Artifacts: _____

Comments:

ME5303

Lab Name:	TESTAMERICA BURLINGTON	Contract:	EPW09044
Lab Code:	STLV	Case No.:	40949
Mod. Ref. No.:		SDG No.:	ME52Z1
Matrix:	WATER	Lab Sample Id:	200-3334-6
% Solids:		Date Received:	01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.086	J		CV

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments: _____

EPA SAMPLE NO.

ME5303

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Matrix: WATER

Lab Sample Id: 200-3334-6

% Solids:

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
57-12-5	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: Clarity After: Artifacts:

Comments:

ME5304

Contract: EPW09044

Mod. Ref. No.: SDG No.: ME52Z1

Lab Sample Id: 200-3334-7

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	10.3			MS
7440-38-2	Arsenic	14.7		D	MS
7440-39-3	Barium	99.6			MS
7440-41-7	Beryllium	0.24	J		MS
7440-43-9	Cadmium	5.4			MS
7440-47-3	Chromium	1.5	J		MS
7440-48-4	Cobalt	0.82	J		MS
7440-50-8	Copper	57.2			MS
7439-92-1	Lead	104		D	MS
7439-96-5	Manganese	184		D	MS
7440-02-0	Nickel	34.8			MS
7782-49-2	Selenium	16.4			MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	0.38	J		MS
7440-62-2	Vanadium	2.6	J		MS
7440-66-6	Zinc	386		D	MS

Color Before: COLORLESS Clarity Before: CLEAR Texture:

Color After: COLORLESS Clarity After: CLEAR Artifacts:

Comments:

ME5304

Contract: EPW09044

Mod. Ref. No.: _____ SDG No.: ME52Z1

Lab Sample Id: 200-3334-7

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.20	U		CV

Texture:

Artifacts:

Comments:

ME5304

Lab Name:	TESTAMERICA BURLINGTON	Contract:	EPW09044
Lab Code:	STLV	Case No.:	40949
Mod. Ref. No.:		SDG No.:	ME52Z1
Matrix:	WATER	Lab Sample Id:	200-3334-7
% Solids:		Date Received:	01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
57-12-5	Cyanide	10.0	U		AS

Color Before: PALE YELLOW Clarity Before: CLOUDY Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments: _____

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EPA SAMPLE NO.

ME5305

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: _____ SDG No.: ME52Z1

Matrix: WATER

Lab Sample Id: 200-3334-8

% Solids: _____

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.1	J		MS
7440-38-2	Arsenic	4.3			MS
7440-39-3	Barium	70.0			MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	0.64	J		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	0.21	J		MS
7440-50-8	Copper	8.2			MS
7439-92-1	Lead	6.0			MS
7439-96-5	Manganese	688		D	MS
7440-02-0	Nickel	4.6			MS
7782-49-2	Selenium	10.2			MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	0.13	J		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	31.8			MS

Color Before: COLORLESS

Clarity Before: CLEAR

Texture: _____

Color After: PALE YELLOW

Clarity After: CLEAR

Artifacts: _____

Comments:

EPA SAMPLE NO.

ME5305

Lab Name:	TESTAMERICA BURLINGTON	Contract:	EPW09044
Lab Code:	STLV	Case No.:	40949
Mod. Ref. No.:		SDG No.:	ME52Z1
Matrix:	WATER	Lab Sample Id:	200-3334-8
% Solids:		Date Received:	01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.069	J		CV

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

EPA SAMPLE NO.

ME5305

Lab Name:	TESTAMERICA BURLINGTON	Contract:	EPW09044
Lab Code:	STLV	Case No.:	40949
Mod. Ref. No.:		SDG No.:	ME52Z1
Matrix:	WATER	Lab Sample Id:	200-3334-8
% Solids:		Date Received:	01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
57-12-5	Cyanide	10.0	U		AS

Color Before: YELLOW Clarity Before: CLOUDY Texture: _____
Color After: _____ Clarity After: _____ Artifacts: _____
Comments: _____

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EPA SAMPLE NO.

ME5314

ICA BURLINGTON

Contract: EPW09044

Code: STLV

Case No.: 40949

Mod. Ref. No.:

SDG No.: ME52Z1

Matrix: WATER

Lab Sample Id: 200-3334-9

% Solids:

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	1.1	J		MS
7440-38-2	Arsenic	53.0		D	MS
7440-39-3	Barium	302		D	MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.6			MS
7440-47-3	Chromium	3.5			MS
7440-48-4	Cobalt	1.9			MS
7440-50-8	Copper	87.7			MS
7439-92-1	Lead	58.8		D	MS
7439-96-5	Manganese	4640		D	MS
7440-02-0	Nickel	10.4			MS
7782-49-2	Selenium	107		D	MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	0.10	J		MS
7440-62-2	Vanadium	2.0	J		MS
7440-66-6	Zinc	90.1			MS

Color Before: YELLOW Clarity Before: CLEAR Texture:

Color After: YELLOW Clarity After: CLEAR Artifacts:

Comments:

EPA SAMPLE NO.

ME5314

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.16	J		CV

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments: _____

ME5314

Lab Name:	TESTAMERICA BURLINGTON	Contract:	EPW09044
Lab Code:	STLV	Case No.:	40949
		Mod. Ref. No.:	SDG No.: ME52Z1
Matrix:	WATER	Lab Sample Id:	200-3334-9
% Solids:		Date Received:	01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
57-12-5	Cyanide	10.0	U		AS

Color Before: COLORLESS Clarity Before: CLOUDY Texture: _____

Color After: _____ Clarity After: _____ Artifacts: _____

Comments: _____

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EPA SAMPLE NO.

ME5315

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Matrix: WATER

Lab Sample Id: 200-3334-10

% Solids:

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.34	J		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	10.0	U		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	2.0	U		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	2.0	U		MS
7439-92-1	Lead	0.095	J		MS
7439-96-5	Manganese	1.1			MS
7440-02-0	Nickel	1.0	U		MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	0.096	J		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	2.0	U		MS

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

ME5315

Lab Name:	TESTAMERICA BURLINGTON	Contract:	EPW09044
Lab Code:	STLV	Case No.:	40949
		Mod. Ref. No.:	SDG No.: ME52Z1
Matrix:	WATER	Lab Sample Id:	200-3334-10
% Solids:		Date Received:	01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.20	U		CV

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
 Color After: _____ Clarity After: _____ Artifacts: _____
 Comments: _____

EPA SAMPLE NO.

ME5315

Contract: EPW09044

Mod. Ref. No.: SDG No.: ME52Z1

Lab Sample Id: 200-3334-10

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
57-12-5	Cyanide	10.0	U		AS

Texture:

Artifacts:

Comments:

USEPA - CLP
1A-IN
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EPA SAMPLE NO.

ME5316

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: _____ SDG No.: ME5221
Matrix: WATER Lab Sample Id: 200-3334-11
% Solids: _____ Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7440-36-0	Antimony	0.37	J		MS
7440-38-2	Arsenic	1.0	U		MS
7440-39-3	Barium	10.0	U		MS
7440-41-7	Beryllium	1.0	U		MS
7440-43-9	Cadmium	1.0	U		MS
7440-47-3	Chromium	0.19	J		MS
7440-48-4	Cobalt	1.0	U		MS
7440-50-8	Copper	2.0	U		MS
7439-92-1	Lead	0.64	J		MS
7439-96-5	Manganese	5.0			MS
7440-02-0	Nickel	0.95	J		MS
7782-49-2	Selenium	5.0	U		MS
7440-22-4	Silver	1.0	U		MS
7440-28-0	Thallium	0.088	J		MS
7440-62-2	Vanadium	5.0	U		MS
7440-66-6	Zinc	34.2			MS

Color Before: COLORLESS Clarity Before: CLEAR Texture: _____
Color After: COLORLESS Clarity After: CLEAR Artifacts: _____
Comments: _____

ME5316

Contract: EPW09044

Mod. Ref. No.: SDG No.: ME52Z1

Lab Sample Id: 200-3334-11

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
7439-97-6	Mercury	0.040	J		CV

Texture:

Artifacts:

Comments:

EPA

Contract: EPW09044

Mod. Ref. No.: SDG 10-1-100000

Lab Sample Id: 200-3334-12

Date Received: 01/14/2011

ug/L

Color Before: BROWN Clarity Before: CLOUDY Texture: _____
Color After: BROWN Clarity After: CLOUDY Artifacts: _____
Comments: _____

ME5320

Contract: EPW09044

Mod. Ref. No.: SDG No.: ME52Z1

Lab Sample Id: 200-3334-12

Date Received: 01/14/2011

Concentration Units (ug/L, ug, or mg/kg dry weight): ug/L

CAS No.	Analyte	Concentration	C	Q	M
57-12-5	Cyanide	1.7	J		AS

Color Before: BROWN Clarity Before: CLOUDY Texture:

Color After: Clarity After: Artifacts:

Comments:

USEPA - CLP
3-IN
BLANKS

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
Preparation Blank Matrix (soil/water/wipe/filter): WATER
Preparation Blank Concentration Units (ug/L, ug, or mg/kg): ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Antimony	1.2	J	1.2	J	1.2	J			0.74	J	MS
Barium	10.0	U	10.0	U	10.0	U			10.0	U	MS
Beryllium	1.0	U	-0.098	J	-0.10	J			-0.10	J	MS
Cadmium	1.0	U	-0.13	J	-0.13	J	-0.13	J	-0.12	J	MS
Chromium	2.0	U	2.0	U	2.0	U	2.0	U	2.0	U	MS
Cobalt	1.0	U	-0.10	J	-0.098	J			-0.11	J	MS
Lead	1.0	U	-0.092	J	-0.090	J	-0.092	J	-0.090	J	MS
Manganese	1.0	U	1.0	U	1.0	U	1.0	U	1.0	U	MS
Selenium	5.0	U	-0.90	J	-0.55	J	5.0	U	-0.66	J	MS
Silver	1.0	U	-0.16	J	-0.16	J	-0.16	J	-0.16	J	MS
Thallium	0.19	J	0.19	J	0.20	J			0.19	J	MS
Vanadium	5.0	U	5.0	U	5.0	U			5.0	U	MS

USEPA - CLP
3-IN
BLANKS

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV

Case No.: 40949

Mod. Ref. No.: _____

SDG No.: ME5221

Preparation Blank Matrix (soil/water/wipe/filter): -

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): _____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Antimony											MS
Barium											MS
Beryllium											MS
Cadmium			-0.12	J							MS
Chromium			2.0	U							MS
Cobalt											MS
Lead			1.0	U							MS
Manganese			1.0	U							MS
Selenium			-0.64	J							MS
Silver			-0.15	J							MS
Thallium											MS
Vanadium											MS

USEPA - CLP
3-IN
BLANKS

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME5221
Preparation Blank Matrix (soil/water/wipe/filter): WATER
Preparation Blank Concentration Units (ug/L, ug, or mg/kg): ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Antimony	0.82	J	0.83	J	0.79	J	0.78	J			MS
Arsenic	1.0	U	-0.35	J	-0.33	J	1.0	U	-0.45	J	MS
Barium	10.0	U	-1.7	J	-1.7	J	-1.7	J			MS
Beryllium	1.0	U	-0.20	J	-0.20	J	-0.19	J			MS
Cobalt	1.0	U	-0.32	J	-0.32	J	-0.32	J			MS
Copper	2.0	U	-0.90	J	2.0	U			2.0	U	MS
Lead	1.0	U	-0.10	J	-0.10	J	-0.088	J			MS
Selenium	5.0	U	-2.3	J	-2.1	J	-1.9	J			MS
Thallium	1.0	U	-0.74	J	-0.74	J	-0.74	J			MS
Vanadium	5.0	U	5.0	U	5.0	U	5.0	U			MS

USEPA - CLP
3-IN
BLANKS

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV

Case No.: 40949

Mod. Ref. No.: _____

SDG No.: ME52Z1

Preparation Blank Matrix (soil/water/wipe/filter): WATER

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Cadmium	1.0	U	1.0	U	-0.13	J	-0.17	J			MS
Cobalt	1.0	U	-0.10	J	-0.10	J	-0.10	J			MS
Copper	2.0	U	2.0	U	2.0	U	2.0	U			MS
Manganese	1.0	U	1.0	U	1.0	U	1.0	U			MS
Nickel	1.0	U	-0.18	J	1.0	U	-0.16	J	1.0	U	MS
Silver	1.0	U	-0.14	J	-0.14	J	-0.14	J			MS

BLANKS

Preparation Blank Concentration Units (ug/L, ug, or mg/kg):

[illegible]

USEPA - CLP
3-IN
BLANKS

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: _____

SDG No.: ME5221

Preparation Blank Matrix (soil/water/wipe/filter): WATER

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	
Zinc	2.0	U	2.0	U	2.0	U			2.0	U	MS

USEPA - CLP

3-IN

BLANKS

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Case No.: 40949

Mod. Ref. No.:

SDG No.: ME52Z1

Preparation Blank Matrix (soil/water/wipe/filter):

Preparation Blank Concentration Units (ug/L, ug, or mg/kg):

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Antimony	0.93	J	0.98	J	1.0	J	1.0	J			MS
Barium	10.0	U	-0.83	J	-0.85	J	-0.81	J			MS
Beryllium	1.0	U	-0.26	J	-0.27	J	-0.27	J			MS
Chromium	2.0	U	-0.46	J	-0.39	J	-0.39	J			MS
Lead	1.0	U	1.0	U	1.0	U	1.0	U			MS
Selenium	5.0	U	-1.4	J	-1.5	J	-1.3	J			MS
Silver	1.0	U	-0.25	J	-0.25	J	-0.24	J			MS
Thallium	0.088	J	0.089	J	0.088	J	0.099	J			MS
Vanadium	5.0	U	5.0	U	5.0	U	5.0	U			MS

USEPA - CLP
3-IN
BLANKS

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV

Case No.: 40949

Mod. Ref. No.: _____

SDG No.: ME5221

Preparation Blank Matrix (soil/water/wipe/filter): _____

Preparation Blank Concentration Units (ug/L, ug, or mg/kg): _____

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Arsenic	1.0	U	1.0	U	1.0	U	1.0	U			MS
Barium	2.4	J	2.4	J	2.4	J	2.4	J			MS
Chromium	0.43	J	0.46	J	0.53	J	0.44	J			MS
Copper	2.0	U	2.0	U	2.0	U	2.0	U			MS
Vanadium	2.2	J	2.2	J	2.2	J	2.1	J			MS
Zinc	2.0	U	2.0	U	2.0	U	2.0	U			MS

BLANKS

Contract: EPW09044

SDG No.: ME52Z1

[illegible]

USEPA - CLP
3-IN
BLANKS

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
 Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
 Preparation Blank Matrix (soil/water/wipe/filter): WATER
 Preparation Blank Concentration Units (ug/L, ug, or mg/kg): ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	
Mercury	0.20	U	-0.14	J	0.20	U	0.20	U	0.042	J	CV

USEPA - CLP
3-IN
BLANKS

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
 Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
 Preparation Blank Matrix (soil/water/wipe/filter): WATER
 Preparation Blank Concentration Units (ug/L, ug, or mg/kg): ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	
Cyanide	10.0	U	10.0	U	10.0	U			-1.4	J	AS

USEPA - CLP
3-IN
BLANKS

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
 Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME5221
 Preparation Blank Matrix (soil/water/wipe/filter): WATER
 Preparation Blank Concentration Units (ug/L, ug, or mg/kg): ug/L

Analyte	Initial Calibration Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		
		C	1	C	2	C	3	C		C	
Cyanide	10.0	U	10.0	U	10.0	U			10.0	U	AS

USEPA - CLP
5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME5302S

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME5221

Matrix: WATER

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Antimony	75-125	108	0.89 J	100	107		MS
Arsenic	75-125	42.0	5.2	40.0	92		MS
Barium	75-125	2030	11.8	2000	101		MS
Beryllium	75-125	53.5	1.0 U	50.0	107		MS
Cadmium	75-125	47.6	1.0 U	50.0	95		MS
Chromium	75-125	211	0.93 J	200	105		MS
Cobalt	75-125	508	1.0 U	500	102		MS
Copper	75-125	258	1.4 J	250	103		MS
Lead	75-125	22.9	0.18 J	20.0	114		MS
Manganese	75-125	527	1.0 U	500	105		MS
Nickel	75-125	499	0.65 J	500	100		MS
Selenium	75-125	27.6	17.8	10.0	98		MS
Silver	75-125	42.6	1.0 U	50.0	85		MS
Thallium	75-125	54.1	0.13 J	50.0	108		MS
Vanadium	75-125	528	1.8 J	500	105		MS
Zinc	75-125	571	3.1	500	114		MS

Comments:

USEPA - CLP
5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME5302S

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV

Case No.: 40949

Mod. Ref. No.: _____

SDG No.: ME52Z1

Matrix: WATER

% Solids for Sample: _____

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA) J	%R	Q	M
Mercury	75-125	1.2	0.046	1.00	110		CV

Comments:

USEPA - CLP
5A-IN
MATRIX SPIKE SAMPLE RECOVERY

EPA SAMPLE NO.

ME5302S

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044

Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1

Matrix: WATER

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Cyanide	75-125	89.2	10.0 U	100	89		AS

Comments:

USEPA - CLP
6-IN
DUPLICATES

EPA SAMPLE NO.

ME5302D

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV

Case No.: 40949

Mod. Ref. No.: _____

SDG No.: ME52Z1

Matrix: WATER

% Solids for Sample: _____

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit	Sample (S)		Duplicate (D)		RPD	Q	M
			C		C			
Antimony		0.89	J	1.3	J	39		MS
Arsenic		5.2		4.9		6		MS
Barium	10.0	11.8		15.0		24		MS
Beryllium		1.0	U	1.0	U			MS
Cadmium		1.0	U	0.12	J	200		MS
Chromium		0.93	J	1.0	J	11		MS
Cobalt		1.0	U	1.0	U			MS
Copper		1.4	J	2.6		58		MS
Lead		0.18	J	0.32	J	55		MS
Manganese		1.0	U	1.0	U			MS
Nickel		0.65	J	0.69	J	6		MS
Selenium	5.0	17.8		17.1		4		MS
Silver		1.0	U	1.0	U			MS
Thallium		0.13	J	0.13	J	2		MS
Vanadium		1.8	J	1.7	J	9		MS
Zinc	2.0	3.1		4.8		42		MS

USEPA - CLP
6-IN
DUPLICATES

EPA SAMPLE NO.

ME5302D

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Matrix: WATER

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit	Sample (S) C		Duplicate (D) C		RPD	Q	M
Mercury		0.046	J	0.066	J	36		CV

USEPA - CLP
6-IN
DUPLICATES

EPA SAMPLE NO.

ME5302D

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Matrix: WATER

% Solids for Sample:

Concentration Units (ug/L or mg/kg dry weight): ug/L

Analyte	Control Limit	Sample (S)		Duplicate (D)		RPD	Q	M
			C		C			
Cyanide		10.0	U	10.0	U			AS

USEPA - CLP
9-IN
METHOD DETECTION LIMIT (MDL) (ANNUALLY)

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
Instrument Type: MS Instrument ID: METICPMS2 Date: 05/19/2010
Preparation Method: 200.8
Concentration Units (ug/L, mg/kg, or ug): ug/L

Analyte	Wavelength/Mass	MDL
Antimony	121	0.11
Arsenic	75	0.28
Barium	135	0.60
Beryllium	9	0.076
Cadmium	111	0.089
Chromium	52	0.11
Cobalt	59	0.082
Copper	65	0.88
Lead	208	0.087
Manganese	55	0.23
Nickel	60	0.15
Selenium	82	0.50
Silver	107	0.078
Thallium	205	0.022
Vanadium	51	1.2
Zinc	66	0.99

Comments:

USEPA - CLP
9-IN
METHOD DETECTION LIMIT (MDL) (ANNUALLY)

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
Instrument Type: CV Instrument ID: MEPCV3 II Date: 01/01/2010
Preparation Method: 7470A
Concentration Units (ug/L, mg/kg, or ug): ug/L

Analyte	Wavelength/Mass	MDL
Mercury		0.037

Comments:

USEPA - CLP
9-IN
METHOD DETECTION LIMIT (MDL) (ANNUALLY)

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
Instrument Type: AS Instrument ID: WCLACHAT Date: 06/09/2010
Preparation Method: Midi-distillation
Concentration Units (ug/L, mg/kg, or ug): ug/L

Analyte	Wavelength/Mass	MDL
Cyanide		1.3

Comments:

USEPA - CLP
11-IN
INTERNAL STANDARD ASSOCIATION

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME5221

ICP-MS Instrument ID: METICPMS2

Date: 01/19/2011

Analyte	Assoc. Internal Standard 1	Assoc. Internal Standard 2
Antimony	Tb-159	
Antimony	Tb-159	
Arsenic	Y-89	
Barium	Tb-159	
Barium	Tb-159	
Beryllium	Li-6	
Beryllium	Li-6	
Cadmium	Y-89	
Chromium	Sc-45	
Cobalt	Sc-45	
Cobalt	Sc-45	
Copper	Sc-45	
Lead	Bi-209	
Lead	Bi-209	
Manganese	Sc-45	
Selenium	Y-89	
Selenium	Y-89	
Silver	Y-89	
Thallium	Bi-209	
Thallium	Bi-209	
Vanadium	Sc-45	
Vanadium	Sc-45	

USEPA - CLP
11-IN
INTERNAL STANDARD ASSOCIATION

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
ICP-MS Instrument ID: METICPMS2 Date: 01/25/2011

Analyte	Assoc. Internal Standard 1	Assoc. Internal Standard 2
Cadmium	Y-89	
Cobalt	Sc-45	
Copper	Sc-45	
Manganese	Sc-45	
Nickel	Sc-45	
Silver	Y-89	

USEPA - CLP
11-IN
INTERNAL STANDARD ASSOCIATION

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

ICP-MS Instrument ID: METICPMS2

Date: 01/26/2011

Analyte	Assoc. Internal Standard 1	Assoc. Internal Standard 2
Antimony	Tb-159	
Barium	Tb-159	
Beryllium	Li-6	
Chromium	Sc-45	
Lead	Bi-209	
Selenium	Y-89	
Silver	Y-89	
Thallium	Bi-209	
Vanadium	Sc-45	
Zinc	Sc-45	

USEPA - CLP
11-IN
INTERNAL STANDARD ASSOCIATION

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
ICP-MS Instrument ID: METICPMS2 Date: 01/27/2011

Analyte	Assoc. Internal Standard 1	Assoc. Internal Standard 2
Arsenic	Y-89	
Barium	Tb-159	
Chromium	Sc-45	
Copper	Sc-45	
Vanadium	Sc-45	
Zinc	Sc-45	

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Instrument ID: METICPMS2

Analysis Method: MS

Start Date: 01/19/2011

End Date: 01/19/2011

EPA Sample No.	D/F	Time	Analytes																	
			S B	B A	B E	C D	C R	C O	P B	M N	S E	A G	T L	V						
TUNE	1.0	1107																		
SO	1.0	1440	X	X	X	X	X	X	X	X	X	X	X	X						
S	1.0	1450	X	X	X	X	X	X	X	X	X	X	X	X						
S	1.0	1459	X	X	X	X	X	X	X	X	X	X	X	X						
S	1.0	1509	X	X	X	X	X	X	X	X	X	X	X	X						
S	1.0	1518	X	X	X	X	X	X	X	X	X	X	X	X						
S	1.0	1527	X	X	X	X	X	X	X	X	X	X	X	X						
ICV	1.0	1537		X			X				X			X						
ICV	10	1546	X		X	X		X	X	X		X	X							
ICB	1.0	1556	X	X	X	X	X	X	X	X	X	X	X	X						
ICSA	1.0	1605	X	X	X	X	X	X	X	X	X	X	X	X						
ICSA	100	1615																		
ICSAB	1.0	1624	X	X	X	X	X	X	X	X	X	X	X	X						
ICSAB	100	1633																		
CCV	1.0	1643	X	X	X	X	X	X	X	X	X	X	X	X						
CCB	1.0	1652	X	X	X	X	X	X	X	X	X	X	X	X						
PBW	1.0	1702	X	X	X	X	X	X	X	X	X	X	X	X						
LCS	1.0	1711	X	X	X	X	X	X	X	X	X	X	X	X						
ME52Z1	100	1720								X										
ME52Z2	100	1730								X										
ME52Z8	100	1739								X										
ME5300	100	1749																		
ME5302	100	1758																		
ME5302L	500	1807																		
ME5302D	100	1817																		
ME5302S	100	1826																		
CCV	1.0	1836	X	X	X	X	X	X	X	X	X	X	X	X						
CCB	1.0	1845	X	X	X	X	X	X	X	X	X	X	X	X						
ME5303	100	1854																		
ME5304	100	1904								X										
ME5305	100	1913								X										
ME5314	100	1923								X										
ME5315	100	1932																		
ME5316	100	1941																		
CCV	1.0	1951				X	X		X	X	X	X								
CCB	1.0	2000				X	X		X	X	X	X								
ME5320	100	2010				X	X				X	X								
ME5320	100	2019							X	X										
	0																			
CCV	1.0	2029				X	X		X	X	X	X								
CCB	1.0	2038				X	X		X	X	X	X								

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Instrument ID: METICPMS2

Analysis Method: MS

Start Date: 01/19/2011

End Date: 01/20/2011

EPA Sample No.	D/F	Time	Analytes																	
			S B	A S	B A	B E	C O	C U	P B	S E	T L	V								
TUNE	1.0	1107																		
S0	1.0	2055	X	X	X	X	X	X	X	X	X	X								
S	1.0	2104	X	X	X	X	X	X	X	X	X	X								
S	1.0	2114	X	X	X	X	X	X	X	X	X	X								
S	1.0	2123	X	X	X	X	X	X	X	X	X	X								
S	1.0	2132	X	X	X	X	X	X	X	X	X	X								
S	1.0	2142	X	X	X	X	X	X	X	X	X	X								
ICV	1.0	2151			X			X		X		X								
ICV	10	2201	X	X		X	X		X		X									
ICB	1.0	2210	X	X	X	X	X	X	X	X	X	X								
ICSA	1.0	2219	X	X	X	X	X	X	X	X	X	X								
ICSA	100	2229																		
ICSAB	1.0	2238	X	X	X	X	X	X	X	X	X	X								
ICSAB	100	2248																		
CV	1.0	2257	X	X	X	X	X	X	X	X	X	X								
CB	1.0	2306	X	X	X	X	X	X	X	X	X	X								
PBW	1.0	2316		X				X												
LCS	1.0	2325		X				X												
ME52Z1	10	2335			X		X		X											
ME52Z2	10	2344			X				X	X										
ME52Z8	10	2354			X															
ME5300	10	0003			X															
ME5302	10	0012																		
ME5302L	50	0022																		
ME5302D	10	0031																		
ME5302S	10	0041																		
CCV	1.0	0050	X	X	X	X	X	X	X	X	X	X								
CCB	1.0	0059	X	X	X	X	X	X	X	X	X	X								
ME5303	10	0109	X						X											
ME5304	10	0118							X											
ME5305	10	0128																		
ME5314	10	0137		X	X				X	X										
ME5315	10	0146																		
ME5316	10	0156																		
ME5320	10	0205	X		X	X	X				X	X								
CCV	1.0	0215	X	X	X	X	X		X	X	X	X								
CCB	1.0	0224	X	X	X	X	X		X	X	X	X								

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Instrument ID: METICPMS2

Analysis Method: MS

Start Date: 01/25/2011

End Date: 01/25/2011

EPA Sample No.	D/F	Time	Analytes															
			C D	C O	C U	M N	N I	A G										
TUNE	1.0	1152																
S0	1.0	1335	X	X	X	X	X	X										
S	1.0	1344	X	X	X	X	X	X										
S	1.0	1354	X	X	X	X	X	X										
S	1.0	1403	X	X	X	X	X	X										
S	1.0	1413	X	X	X	X	X	X										
S	1.0	1422	X	X	X	X	X	X										
ICV	1.0	1431			X													
ICV	10	1441	X	X		X	X	X										
ICB	1.0	1450	X	X	X	X	X	X										
ICSA	1.0	1500	X	X	X	X	X	X										
ICSA	100	1509																
ICSAB	1.0	1519	X	X	X	X	X	X										
ICSAB	100	1528																
CCV	1.0	1537	X	X	X	X	X	X										
CCB	1.0	1547	X	X	X	X	X	X										
PBW	1.0	1556					X											
LCS	1.0	1606					X											
ME52Z1	1.0	1615	X		X		X											
ME52Z2	1.0	1624	X	X	X		X	X										
ME52Z8	1.0	1634	X	X	X		X	X										
ME5300	1.0	1643	X	X	X	X	X	X										
ME5302	1.0	1653	X	X	X	X	X	X										
ME5302L	5.0	1702	X	X	X	X	X	X										
ME5302A	1.0	1712																
ME5302D	1.0	1721	X	X	X	X	X	X										
CCV	1.0	1730	X	X	X	X	X	X										
CCB	1.0	1740	X	X	X	X	X	X										
ME5302S	1.0	1749	X					X										
ME5302S	10	1759		X	X	X	X											
ME5303	1.0	1808	X	X	X	X	X	X										
ME5304	1.0	1818	X	X	X		X	X										
ME5305	1.0	1827	X	X	X		X	X										
ME5314	1.0	1836	X	X	X		X	X										
ME5315	1.0	1846	X	X	X	X	X	X										
ME5316	1.0	1855	X	X	X	X	X	X										
CCV	1.0	1905	X	X	X	X	X	X										
CCB	1.0	1914	X	X	X	X	X	X										
ME5320	1.0	1923																
ME5320	2.0	1933																
ME5320	10	1942																

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
Instrument ID: METICPMS2 Analysis Method: MS
Start Date: 01/25/2011 End Date: 01/25/2011

EPA Sample No.	D/F	Time	Analytes																
			C D	C O	C U	M N	N I	A G											
ME5320	100	1952					X												
CCV	1.0	2001					X												
CCB	1.0	2011					X												

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Instrument ID: METICPMS2

Analysis Method: MS

Start Date: 01/26/2011

End Date: 01/26/2011

EPA Sample No.	D/F	Time	Analytes																	
			Z N																	
TUNE	1.0	0952																		
SO	1.0	1537	X																	
S	1.0	1547	X																	
S	1.0	1556	X																	
S	1.0	1605	X																	
S	1.0	1615	X																	
S	1.0	1624	X																	
ICV	1.0	1634																		
ICV	1.0	1643	X																	
ICB	1.0	1652	X																	
ICSA	1.0	1702	X																	
ICSA	100	1711																		
ICSAB	1.0	1721	X																	
ICSAB	100	1730																		
CCV	1.0	1740	X																	
CCB	1.0	1749	X																	
PBW	1.0	1758	X																	
LCS	1.0	1808	X																	
CCV	1.0	1817	X																	
CCB	1.0	1827	X																	
ME52Z1	2.0	1836																		
ME52Z2	2.0	1846																		
ME52Z8	2.0	1855																		
ME5300	2.0	1904																		
ME5302	2.0	1914																		
ME5302L	1.0	1923																		
ME5302A	1.0	1933																		
ME5302D	2.0	1942																		
ME5302S	2.0	1952																		
ME5303	2.0	2001																		
CCV	1.0	2010																		
CCB	1.0	2020																		
ME5304	2.0	2029																		
ME5305	2.0	2039																		
ME5314	2.0	2048																		
ME5315	2.0	2058																		
ME5316	2.0	2107																		
CCV	1.0	2116																		
CCB	1.0	2126																		
ME5320	2.0	2135																		
CCV	1.0	2145																		

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
Instrument ID: METICPMS2 Analysis Method: MS
Start Date: 01/26/2011 End Date: 01/26/2011

EPA Sample No.	D/F	Time	Analytes																	
			Z N																	
CCB	1.0	2154																		
ME52Z1	5.0	2204																		
ME5302S	10	2213																		
ME5303	5.0	2223																		
ME5304	10	2232																		
ME5320	100	2241																		
ME5320	100	2251																		
	0																			
CCV	1.0	2300																		
CCB	1.0	2310																		

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Instrument ID: METICPMS2

Analysis Method: MS

Start Date: 01/26/2011

End Date: 01/27/2011

EPA Sample No.	D/F	Time	Analytes																	
			S B	B A	B E	C R	P B	S E	A G	T L	V									
TUNE	1.0	0952																		
S0	1.0	2324	X	X	X	X	X	X	X	X	X									
S	1.0	2334	X	X	X	X	X	X	X	X	X									
S	1.0	2343	X	X	X	X	X	X	X	X	X									
S	1.0	2353	X	X	X	X	X	X	X	X	X									
S	1.0	0002	X	X	X	X	X	X	X	X	X									
S	1.0	0011	X	X	X	X	X	X	X	X	X									
ICV	1.0	0021		X		X		X			X									
ICV	10	0030	X		X		X		X	X										
ICB	1.0	0040	X	X	X	X	X	X	X	X	X									
ICSA	1.0	0049	X	X	X	X	X	X	X	X	X									
ICSA	100	0059																		
ICSAB	1.0	0108	X	X	X	X	X	X	X	X	X									
ICSAB	100	0117																		
CCV	1.0	0127	X	X	X	X	X	X	X	X	X									
CCB	1.0	0136	X	X	X	X	X	X	X	X	X									
ZZZZZZ	1.0	0146																		
ZZZZZZ	1.0	0155																		
ME52Z1	1.0	0205	X		X	X		X	X	X	X									
ME52Z2	1.0	0214	X		X	X				X	X									
ME52Z8	1.0	0223	X		X	X	X	X		X	X									
ME5300	1.0	0233	X		X	X	X	X		X	X									
ME5302	1.0	0242	X		X		X	X		X										
ME5302L	5.0	0252	X		X		X	X		X										
ME5302A	1.0	0301																		
ME5302D	1.0	0310	X		X		X	X		X										
CCV	1.0	0320	X	X	X	X	X	X	X	X	X									
CCB	1.0	0329	X	X	X	X	X	X	X	X	X									
ME5302S	1.0	0339	X		X		X	X		X										
ME5303	1.0	0348		X	X	X		X		X	X									
ME5304	1.0	0358	X	X	X	X		X		X	X									
ME5305	1.0	0407	X	X	X	X	X	X		X	X									
ME5314	1.0	0416	X		X	X				X	X									
ME5315	1.0	0426	X	X	X	X	X	X		X	X									
ME5316	1.0	0435	X	X	X	X	X	X		X	X									
CCV	1.0	0445	X	X	X	X	X	X	X	X	X									
CCB	1.0	0454	X	X	X	X	X	X	X	X	X									

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STL Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Instrument ID: METICPMS2

Analysis Method: MS

Start Date: 01/27/2011

End Date: 01/27/2011

EPA Sample No.	D/F	Time	Analytes																	
			A S	B A	C R	C U	V	Z N												
TUNE	1.0	0900																		
S0	1.0	1215	X	X	X	X	X	X												
S	1.0	1224	X	X	X	X	X	X												
S	1.0	1233	X	X	X	X	X	X												
S	1.0	1243	X	X	X	X	X	X												
S	1.0	1252	X	X	X	X	X	X												
S	1.0	1302	X	X	X	X	X	X												
ICV	1.0	1311		X	X	X	X													
ICV	10	1320	X					X												
ICB	1.0	1330	X	X	X	X	X	X												
ICSA	1.0	1339	X	X	X	X	X	X												
ICSA	100	1349																		
ICSAB	1.0	1358	X	X	X	X	X	X												
ICSAB	100	1408																		
CV	1.0	1417	X	X	X	X	X	X												
CB	1.0	1426	X	X	X	X	X	X												
ZZZZZZ	1.0	1436																		
ZZZZZZ	1.0	1445																		
ME52Z1	5.0	1455	X					X												
ME52Z2	1.0	1504	X					X												
ME52Z8	1.0	1513	X					X												
ME5300	1.0	1523	X					X												
ME5302	1.0	1532	X	X	X		X	X												
ME5302L	5.0	1542	X	X	X		X	X												
ME5302A	1.0	1551																		
ME5302D	1.0	1601	X	X	X		X	X												
CCV	1.0	1610	X	X	X	X	X	X												
CCB	1.0	1619	X	X	X	X	X	X												
ME5302S	10	1629	X	X	X		X	X												
ME5303	5.0	1638	X					X												
ME5304	10	1648	X					X												
ME5305	1.0	1657	X					X												
ME5314	1.0	1707						X												
ME5315	1.0	1716	X					X												
ME5316	1.0	1725	X					X												
ME5320	100	1735				X		X												
0																				
CCV	1.0	1744	X	X	X	X	X	X												
CCB	1.0	1754	X	X	X	X	X	X												
ME5320	1.0	1803	X																	
CCV	1.0	1812	X																	
CB	1.0	1822	X																	

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Instrument ID: MEPCV3 II

Analysis Method: CV

Start Date: 01/19/2011

End Date: 01/19/2011

EPA Sample No.	D/F	Time	Analytes																	
			H G																	
S0	1.0	1509	X																	
S0.2	1.0	1511	X																	
S0.5	1.0	1513	X																	
S1	1.0	1515	X																	
S5	1.0	1517	X																	
S10	1.0	1519	X																	
ICV	1.0	1522	X																	
ICB	1.0	1524	X																	
CCV	1.0	1526	X																	
CCB	1.0	1528	X																	
PBW	1.0	1530	X																	
ME52Z1	1.0	1532	X																	
ME52Z2	1.0	1534	X																	
ME52Z8	1.0	1536	X																	
ME5300	1.0	1538	X																	
ME5302	1.0	1540	X																	
ME5302D	1.0	1542	X																	
ME5302S	1.0	1544	X																	
ME5303	1.0	1546	X																	
CCV	1.0	1548	X																	
CCB	1.0	1551	X																	
ME5304	1.0	1553	X																	
ME5305	1.0	1555	X																	
ME5314	1.0	1557	X																	
ME5315	1.0	1559	X																	
ME5316	1.0	1601	X																	
ME5320	1.0	1603	X																	
CCV	1.0	1605	X																	
CCB	1.0	1607	X																	

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
Instrument ID: WCLACHAT Analysis Method: AS
Start Date: 01/20/2011 End Date: 01/20/2011

EPA Sample No.	D/F	Time	Analytes																			
			C N																			
S0	1.0	1748	X																			
S10	1.0	1749	X																			
S50	1.0	1750	X																			
S100	1.0	1751	X																			
S200	1.0	1752	X																			
S400	1.0	1753	X																			
ICV	1.0	1754	X																			
ICB	1.0	1755	X																			
CCV	1.0	1756	X																			
CCB	1.0	1757	X																			
PBW	1.0	1759	X																			
ME52Z1	1.0	1800	X																			
ME52Z2	1.0	1801	X																			
ME52Z8	1.0	1802	X																			
ME5300	1.0	1803	X																			
ME5302	1.0	1804	X																			
ME5302D	1.0	1805	X																			
ME5302S	1.0	1806	X																			
ME5303	1.0	1807	X																			
ME5304	1.0	1808	X																			
CCV	1.0	1810	X																			
CCB	1.0	1811	X																			

USEPA - CLP
13-IN
ANALYSIS RUN LOG

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Instrument ID: WCLACHAT

Analysis Method: AS

Start Date: 01/21/2011

End Date: 01/21/2011

EPA Sample No.	D/F	Time	Analytes																	
			C N																	
S0	1.0	1123	X																	
S10	1.0	1124	X																	
S50	1.0	1125	X																	
S100	1.0	1127	X																	
S200	1.0	1128	X																	
S400	1.0	1129	X																	
ICV	1.0	1130	X																	
ICB	1.0	1131	X																	
CCV	1.0	1132	X																	
CCB	1.0	1133	X																	
PBW	1.0	1134	X																	
ME5305	1.0	1135	X																	
ME5314	1.0	1136	X																	
ME5315	1.0	1137	X																	
ME5316	1.0	1139	X																	
ME5320	1.0	1140	X																	
CCV	1.0	1141	X																	
CCB	1.0	1142	X																	

USEPA - CLP
15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
ICP-MS Instrument ID: METICPMS2 Start Date: 01/19/2011 End Date: 01/19/2011

EPA Sample No.	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element Tb-159	Q	Element Bi-209	Q
S0	1440	100		100		100		100		100	
S	1450	95		94		95		96		97	
S	1459	94		93		93		95		96	
S	1509	95		93		94		94		95	
S	1518	99		96		95		96		97	
S	1527	100		97		95		95		94	
ICV	1537	97		93		92		94		96	
ICV	1546	97		94		92		94		96	
ICB	1556	97		93		92		94		95	
ICSA	1605	80		83		83		86		86	
ICSA	1615	101		106		103		100		100	
ICSAB	1624	86		90		88		90		89	
ICSAB	1633	104		110		106		103		102	
CCV	1643	111		114		109		105		103	
CCB	1652	111		112		108		106		105	
BW	1702	87		83		84		88		92	
LCS	1711	88		85		86		91		93	
ME52Z1	1720	96		96		96		98		99	
ME52Z2	1730	98		98		99		101		101	
ME52Z8	1739	101		101		101		103		104	
ME5300	1749										
ME5302	1758										
ME5302L	1807										
ME5302D	1817										
ME5302S	1826										
CCV	1836	100		100		101		101		101	
CCB	1845	103		101		101		102		102	
ME5303	1854										
ME5304	1904	98		95		96		98		100	
ME5305	1913	96		93		94		98		99	
ME5314	1923	94		92		94		97		98	
ME5315	1932										
ME5316	1941										
CCV	1951	99		96		96		98		98	
CCB	2000	101		98		98		99		101	
ME5320	2010	86		84		96		91		93	
ME5320	2019	92		89		92		95		97	
CCV	2029	98		94		95		98		98	
CCB	2038	100		96		98		99		101	
S0	2055	100		100		100		100		100	
S	2104	97		96		97		98		98	
S	2114	96		95		97		98		98	
S	2123	98		98		98		98		98	

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV

Case No.: 40949

Mod. Ref. No.: _____

SDG No.: ME52Z1

ICP-MS Instrument ID: METICPMS2

Start Date: 01/19/2011

End Date: 01/20/2011

EPA Sample No.	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element Tb-159	Q	Element Bi-209	Q
S	2132	100		100		99		98		98	
S	2142	100		99		98		98		96	
ICV	2151	97		95		95		95		96	
ICV	2201	95		94		94		96		96	
ICB	2210	95		94		94		96		97	
ICSA	2219	81		85		86		88		87	
ICSA	2229	102		109		107		105		102	
ICSAB	2238	85		92		91		93		90	
ICSAB	2248	104		113		110		107		104	
CCV	2257	110		117		114		110		106	
CCB	2306	111		117		114		111		108	
PBW	2316	84		82		86		91		93	
LCS	2325	86		85		88		93		94	
ME52Z1	2335	86		89		97		96		96	
ME52Z2	2344	85		87		92		96		96	
ME52Z8	2354	90		92		95		99		99	
ME5300	0003	88		89		92		97		98	
ME5302	0012	96		97		99		100		98	
ME5302L	0022	99		101		103		103		102	
ME5302D	0031	99		102		102		103		100	
ME5302S	0041	100		102		102		102		99	
CCV	0050	102		105		104		103		101	
CCB	0059	102		105		105		103		103	
ME5303	0109	94		95		97		98		98	
ME5304	0118	92		94		96		98		98	
ME5305	0128	93		94		96		98		99	
ME5314	0137	85		86		90		94		94	
ME5315	0146	94		94		97		99		100	
ME5316	0156	94		95		96		99		100	
ME5320	0205	71		80		176	R	91		86	
CCV	0215	96		100		100		101		100	
CCB	0224	99		103		103		103		103	

USEPA - CLP
15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
ICP-MS Instrument ID: METICPMS2 Start Date: 01/25/2011 End Date: 01/25/2011

EPA Sample No.	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element Tb-159	Q	Element Bi-209	Q
S0	1335	100		100		100		100		100	
S	1344	98		98		99		100		100	
S	1354	99		99		100		100		101	
S	1403	98		98		99		100		98	
S	1413	94		97		98		100		97	
S	1422	89		96		98		99		95	
ICV	1431	85		90		94		98		99	
ICV	1441	90		95		98		101		102	
ICB	1450	93		96		100		102		102	
ICSA	1500	66		79		88		100		95	
ICSA	1509	79		92		101		112		114	
ICSAB	1519	62		76		89		105		100	
ICSAB	1528	79		94		105		118		120	
CCV	1537	88		99		106		117		115	
CCB	1547	86		96		104		116		118	
BW	1556	73		77		88		106		111	
LCS	1606	75		79		90		106		112	
ME52Z1	1615	64		82		128	R	110		104	
ME52Z2	1624	63		84		98		110		100	
ME52Z8	1634	74		85		97		114		110	
ME5300	1643	77		83		95		114		116	
ME5302	1653	77		106		116		121		106	
ME5302L	1702	73		106		119		126	R	111	
ME5302A	1712										
ME5302D	1721	70		103		120		132	R	119	
CCV	1730	74		93		108		126	R	128	R
CCB	1740	76		94		108		126	R	131	R
ME5302S	1749	62		89		105		119		108	
ME5302S	1759	67		89		105		122		122	
ME5303	1808	64		84		101		124		123	
ME5304	1818	64		81		100		123		125	
ME5305	1827	68		83		99		123		127	R
ME5314	1836	61		80		95		115		110	
ME5315	1846	75		85		102		124		132	R
ME5316	1855	74		82		98		121		129	R
CCV	1905	80		91		104		121		123	
CCB	1914	81		92		104		121		127	R
ME5320	1923										
ME5320	1933										
ME5320	1942										
ME5320	1952	76		101		130	R	137	R	138	R
CCV	2001	76		98		113		133	R	136	R
CCB	2011	75		95		112		133	R	141	R

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV

Case No.: 40949

Mod. Ref. No.: _____

SDG No.: ME52Z1

ICP-MS Instrument ID: METICPMS2

Start Date: 01/26/2011

End Date: 01/27/2011

EPA Sample No.	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element Tb-159	Q	Element Bi-209	Q
S0	2324	100		100		100		100		100	
S	2334	100		98		99		100		100	
S	2343	105		103		102		102		101	
S	2353	104		101		100		101		98	
S	0002	100		95		96		97		94	
S	0011	101		99		98		97		92	
ICV	0021	101		99		99		99		99	
ICV	0030	103		104		104		102		101	
ICB	0040	103		105		104		103		102	
ICSA	0049	79		85		90		95		89	
ICSA	0059	99		102		106		108		108	
ICSAB	0108	76		82		89		96		91	
ICSAB	0117	96		98		103		107		107	
CCV	0127	100		101		104		107		104	
CCB	0136	103		105		107		109		110	
ZZZZZZ	0146										
ZZZZZZ	0155										
ME52Z1	0205	75		84		121		97		91	
ME52Z2	0214	69		82		89		93		84	
ME52Z8	0223	85		85		91		98		94	
ME5300	0233	90		88		92		101		100	
ME5302	0242	71		76		81		88		81	
ME5302L	0252	83		81		85		92		88	
ME5302A	0301										
ME5302D	0310	75		79		84		90		81	
CCV	0320	78		79		85		94		93	
CCB	0329	82		83		89		97		99	
ME5302S	0339	66		73		79		86		77	
ME5303	0348	70		75		84		94		91	
ME5304	0358	65		71		81		93		93	
ME5305	0407	68		70		78		91		92	
ME5314	0416	65		74		81		88		82	
ME5315	0426	86		88		93		102		105	
ME5316	0435	86		86		92		100		102	
CCV	0445	94		93		95		98		96	
CCB	0454	97		96		97		100		100	
S0	1537	100		100		100		100		100	
S	1547	100		101		100		100		100	
S	1556	98		102		101		100		100	
S	1605	101		102		100		98		96	
S	1615	100		101		98		95		92	
S	1624	101		100		96		93		88	
ICV	1634	96		96		94		92		91	

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
ICP-MS Instrument ID: METICPMS2 Start Date: 01/26/2011 End Date: 01/26/2011

EPA Sample No.	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element Tb-159	Q	Element Bi-209	Q
ICV	1643	99		100		96		94		94	
ICB	1652	101		101		98		95		94	
ICSA	1702	79		81		85		88		83	
ICSA	1711	95		98		99		100		100	
ICSAB	1721	79		83		88		92		86	
ICSAB	1730	94		99		101		102		102	
CCV	1740	103		103		104		103		99	
CCB	1749	103		106		106		105		104	
PBW	1758	88		85		92		99		102	
LCS	1808	93		92		96		100		102	
CCV	1817	103		101		101		100		97	
CCB	1827	104		107		106		103		102	
ME52Z1	1836										
ME52Z2	1846										
ME52Z8	1855										
ME5300	1904										
ME5302	1914										
ME5302L	1923										
ME5302A	1933										
ME5302D	1942										
ME5302S	1952										
ME5303	2001										
CCV	2010										
CCB	2020										
ME5304	2029										
ME5305	2039										
ME5314	2048										
ME5315	2058										
ME5316	2107										
CCV	2116										
CCB	2126										
ME5320	2135										
CCV	2145										
CCB	2154										
ME52Z1	2204										
ME5302S	2213										
ME5303	2223										
ME5304	2232										
ME5320	2241										
ME5320	2251										
CCV	2300										
CCB	2310										

USEPA - CLP
15-IN
ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV

Case No.: 40949

Mod. Ref. No.: _____

SDG No.: ME52Z1

ICP-MS Instrument ID: METICPMS2

Start Date: 01/27/2011

End Date: 01/27/2011

EPA Sample No.	Time	Internal Standards %RI For:									
		Element Li-6	Q	Element Sc-45	Q	Element Y-89	Q	Element Tb-159	Q	Element Bi-209	Q
S0	1215	100		100		100		100		100	
S	1224	100		101		101		101		100	
S	1233	99		100		100		100		98	
S	1243	98		98		97		98		95	
S	1252	70		92		92		94		90	
S	1302	72		94		92		91		85	
ICV	1311	60		94		92		92		90	
ICV	1320	67		95		96		95		93	
ICB	1330	64		95		96		96		95	
ICSA	1339	70		80		85		92		81	
ICSA	1349	97		99		101		104		102	
ICSAB	1358	68		81		86		94		83	
ICSAB	1408	77		95		99		104		103	
CCV	1417	100		99		101		105		100	
CCB	1426	102		100		104		107		105	
ZZZZZZ	1436										
ZZZZZZ	1445										
ME52Z1	1455	67		88		101		100		96	
ME52Z2	1504	68		84		91		95		79	
ME52Z8	1513	73		87		91		99		90	
ME5300	1523	64		83		88		97		93	
ME5302	1532	67		77		83		92		77	
ME5302L	1542	66		79		85		94		86	
ME5302A	1551										
ME5302D	1601	62		77		84		92		77	
CCV	1610	63		87		92		99		94	
CCB	1619	63		88		92		99		98	
ME5302S	1629	64		79		85		94		88	
ME5303	1638	60		74		82		93		91	
ME5304	1648	60		74		82		94		94	
ME5305	1657	60		70		80		94		93	
ME5314	1707	62		76		86		96		82	
ME5315	1716	68		92		101		112		114	
ME5316	1725	64		86		95		106		107	
ME5320	1735	67		90		97		102		101	
CCV	1744	68		91		95		100		95	
CCB	1754	65		92		97		101		100	
ME5320	1803	39	R	108		928	R	106		64	
CCV	1812	118		120		114		108		100	
CCB	1822	120		121		115		111		108	

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: TESTAMERICA BURLINGTON Contract: EPW09044
Lab Code: STLV Case No.: 40949 Mod. Ref. No.: SDG No.: ME52Z1
Instrument ID: METICPMS2 Start Date: 01/27/2011

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Arsenic	0.0	0.012		1.0	0.96	-4	4.0	3.9	-2
Barium	0.0	2.4		10.0	11.8	18	40.0	41.5	4
Chromium	0.0	0.41		2.0	2.3	14	8.0	8.3	3
Copper	0.0	-0.095		2.0	1.9	-6	8.0	8.2	2
Vanadium	0.0	2.2		5.0	6.7	33	20.0	21.0	5
Zinc	0.0	-0.37		2.0	1.8	-11	8.0	7.7	-4

Control Limits ±30

USEPA - CLP
16-IN
INITIAL CALIBRATION

Lab Name: TESTAMERICA BURLINGTON

Contract: EPW09044

Lab Code: STLV Case No.: 40949

Mod. Ref. No.: SDG No.: ME52Z1

Instrument ID: METICPMS2

Start Date: 01/27/2011

Concentration Units: ug/L

Analyte	True	Found	%D	True	Found	%D	True	Found	%D
Arsenic	16.0	16.1	0	32.0	32.1	0	64.0	64.0	0
Barium	160	156	-3	320	316	-1	640	643	0
Chromium	32.0	31.3	-2	64.0	63.3	-1	128	129	0
Copper	32.0	31.6	-1	64.0	64.8	1	128	128	0
Vanadium	80.0	76.9	-4	160	156	-3	320	323	1
Zinc	32.0	32.2	1	64.0	65.6	3	128	127	-1

Control Limits ± 30

FORM XVI-IN

ISM01.2 (1/10)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY ~ REGION V

ESD Central Regional Laboratory
Data Tracking Form for Contract Samples

Sample Delivery Group: ME52Z1 CERCLIS No: TL0048843809
Case No: 40949 Site Name/Location: Chemeco (Tr)
Contractor or EPA Lab: TA Burlington Data User: Sergull
No. of Samples: 12 Date Sampled or Date Received: 31 JAN 2011

Have Chain-of-Custody records been received? Yes ☒ No ☐
Have traffic reports or packing lists been received? Yes ☒ No ☐
If no, are traffic reports or packing list numbers written on the Chain-of-Custody Record?
Yes ☐ No ☐
If no, which traffic report or packing list numbers are missing?

Are basic data forms in? Yes ☒ No ☐
No of samples claimed: 12 No. of samples received: _____

Received by: Pat Hogue Date: 31 JAN 2011

Received by LSSS: Pat Hogue Date: 3 FEB 2011

Review started: 2-8-11 Reviewer Signature: [Signature]

Total time spent on review: 20.0 + 2.0 Date review completed: 2-11-11

Copied by: A. C. Harvey ⁰²⁰₂₋₁₆₋₁₁ Date: Feb 16, 2011

Mailed to user by: Pat Hogue Date: 17 FEB 2011

DATA USER:

Please fill in the blanks below and return this form to:
Sylvia Griffin, Data Mgmt. Coordinator, Region V, ML-10C

Data received by: _____ Date: _____

Data review received by: _____ Date: _____

Inorganic Data Complete	<input type="checkbox"/> Suitable for Intended Purpose	<input type="checkbox"/> T if OK
Organic Data Complete	<input type="checkbox"/> Suitable for Intended Purpose	<input type="checkbox"/> T if OK
Dioxin data Complete	<input type="checkbox"/> Suitable for Intended Purpose	<input type="checkbox"/> T if OK
SAS Data Complete	<input type="checkbox"/> Suitable for Intended Purpose	<input type="checkbox"/> T if OK

PROBLEMS: Please indicate reasons why data are not suitable for your uses.

Reviewed by Data Mgmt. Coordinator for Files. Date: _____